S4190-2

M I N N E S O T A

H E A L T H S T A T I S T I C S

1 9 8 1

Published March, 1984

Minnesota Department of Health
Center for Health Statistics
717 Delaware Street S.E.
Minneapolis, Minnesota 55440

Photographs courtesy of: Brenda Braun, Minnesota Department of Health, Section of Health Education, 717 Delaware Street S.E., Minneapolis, Minnesota 55440

FOREWORD

Minnesota Health Statistics 1981 was prepared by the Minnesota Center for Health Statistics of the Minnesota Department of Health and is the 31st annual summary of vital statistics published by the Department. The document also responds, in part, to the requirements of a contract held with the United States Department of Health, Education, and Welfare to establish and implement a cooperative health statistics program for Minnesota.

The basic data for Minnesota Health Statistics 1981 were obtained from Birth, Death, Fetal Death, Marriage, and Divorce certificates and/or reports filed with the Section of Vital Statistics Registration within the Department during calendar year 1981.

If you have suggestions concerning the report format, queries concerning the data formulae used in developing the statistics, or if you have requests for additional statistics please contact:

Minnesota Department of Health
Minnesota Center for Health Statistics
717 S.E. Delaware St.
P.O. Box 9441
Minneapolis, MN 55440

TABLE OF CONTENTS

	Page
Technical Notes	1
Sources of Data	1
Data Quality	2
Geographic Allocation	4
Definition of Rates	5
Overview of 1981 Vital Statistics	7
Live Births	17
Infant Mortality and Fetal Deaths	35
General Mortality	39
Marriage and Divorce	63
Occupational Illness and Injury	71
Population	81
Definitions	95
Errata	97
Other Publications Available	100
Samples of Data Collection Instruments	101

LIST OF TABLES

Table		Page
1	Percent Changes Between 1980 and 1981 Selected Minnesota Health Statistics	9
2	Births, Deaths, Infant Deaths, Fetal Deaths, Marriages, Divorces and Annulments by Month, Minnesota Occurrences, 1981	10
3	Live Births, Fetal Deaths, Deaths, Infant Deaths, and Neonatal Deaths by Urban Area of Residence, Minnesota, 1981	11
4	Live Births by County of Occurrence Distributed According to Residence, Resident Live Births Distributed According to Place of Birth, Minnesota, 1981	20
5	Selected Resident Natality Statistics by County and Cities Over 90,000, Minnesota, 1981	22
6	Live Birth Weight by Live Birth Order and Sex, Minnesota Residents, 1981	32
7	Live Births by Age of Mother and Live Birth Order, Minnesota Residents, 1981	33
8	Prenatal Care and Race by Age of Mother and by Legitimacy Status, Minnesota Residents, 1981	34
9	Infant, Neonatal and Postneonatal Deaths by Cause, Minnesota Residents, 1981	37
10	Fetal Deaths of 20 Weeks and Over by Cause and Weight of Fetus, Minnesota Residents, 1981	38
11	Deaths by County of Occurrence According to Residence: Resident Deaths Distributed According to Place of Death, Minnesota, 1981	42
12	Deaths From Selected Causes by Age Group and Sex, Minnesota Residents, 1981	44
13	Deaths Due to Selected Causes by Race, Minnesota Residents, 1981	49
14	Fifteen Leading Causes of Death, Death Rates Per 100,000 Population and Percent of Total Deaths, Minnesota Residents, 1981	50
15	Leading Causes of Death by Selected Age Groups, Minnesota Residents, 1981	51
16	Deaths Occurring in Minnesota by Cause and Autopsy Status, 1981	52

LIST OF TABLES (CONT.)

Table		Page
17	Selected Resident Mortality Statistics by County and Cities Over 90,000, Minnesota, 1981	53
18	Marriages, Divorces, and Annulments by County of Occurrence, Minnesota, 1981	65
19	Marriages Occurring in Minnesota by Race of Bride and Groom, 1981	66
20	Marriages Occurring in Minnesota by Age of Bride and Groom, 1981	67
21	Marriages Reported in Minnesota by State of Residence, 1981 . .	68
22	Divorces and Annulments by Age of Husband and Wife, Minnesota, 1981	69
23	Estimated Number of Injuries and Illnesses by Major Industrial Category, Minnesota, 1980 and 1981	73
24	Annual Average Employment, Percent of Total Employment and Rate of Occupational Injuries and Illnesses Per 1,000 Workers by Industrial Category, Minnesota, 1980 and 1981	74
25	Estimated Number of Injuries and Illnesses by Major Occupational Category, Minnesota, 1980 and 1981	75
26	Estimated Number of Occupational Injuries and Illnesses by Type of Accident, Minnesota, 1980 and 1981	76
27	Estimated Number of Occupational Injuries and Illnesses by Nature of Injury, Minnesota, 1980 and 1981	77
28	Estimated Number of Occupational Injuries and Illnesses by Part of Body Injured, Minnesota, 1980 and 1981	79
29	Population Estimates by Region, County, Cities Over 90,000, Age and Sex, Minnesota, 1981	84

LIST OF FIGURES

Figure		Page
1	Number of Births by Region, Minnesota, 1970-1981	98
2	Percent of Births That Are Out of Wedlock by Region, Minnesota, 1970-1981	99
3	Certificate of Death	101
4	Certificate of Live Birth	102
5	Certificate of Fetal Death	103
6	Report of Induced Abortion	104
7	First Report of Injury	105
8	Map of Health Districts and Offices	106

****
TECHNICAL NOTES
****

A. SOURCES OF DATA

Vital Events

Birth, death, and fetal death certificates are the source documents for data on vital events of Minnesota residents during the 1981 calendar year. A copy of each of these types of certificates is included as Figures 3-5, pages 101-103. Marriage and divorce data are compiled from transmittal documents which are received from each county.

The cut-off date for 1981 vital events data in this report was August 1, 1982. Any data pertaining to a 1981 event for which a certificate was filed after August 1, 1982 are not included in this report. It is possible that future data obtained from the MCHS may differ slightly from that which appears in this report. If this should occur, it is due to an update to the 1981 data year which was made after the August 1 deadline.

Events relating to Minnesota residents which occurred in another state are included in this report.[1] The inclusion of these data is made possible by an agreement among all registration areas in the United States for resident exchange of copies of certificates.

Birth and fetal death certificates are usually completed by hospital personnel present at the delivery. Death certificates are usually completed by hospital personnel, physicians, and funeral directors.

Population

The 1981 population data used in this publication (by age, sex and county) are estimates calculated by the Minnesota Center for Health Statistics. The estimates are calculated using the following procedures:

1) The 1980 census data are used as a starting point for the 1981 estimates. Data are aggregated by county, sex, and single year of age.

2) The census data are modified to account for natural increase. The entire population is aged one year from 1980. Then, 1980 births are added in as the 1981 infants (less than one year of age). Also, 1980 deaths are subtracted from the 1980 population by age, sex and county.

3) The preliminary estimates from step 2 are adjusted to agree with the total county estimates developed by the State Demography Unit

---

[1] No marriage and divorce reports are included in the interstate exchange program for vital events. Hence all marriage and divorce data are Minnesota occurrences.

of the Minnesota Department of Energy, Planning and Development.

Occupational Injuries and Illnesses

The basic source document for the Supplementary Data System (SDS) of occupational injuries and illnesses is the "First Report of Injury" submitted by employers to the Minnesota Department of Labor and Industry, Worker's Compensation Division. A copy of "First Report of Injury" is included as Figure 7, page 105.

The Supplementary Data System covers all employees in the state who fall within the scope of the Worker's Compensation Act. This excludes railroads in interstate commerce, certain farm operations, casual employment not in the usual course of trade or business, and household workers earning less than $500 per quarter. Any work-related illnesses or injuries which cause a loss of three or more days of work are required to be reported.

B. DATA QUALITY

Vital Events

The quality of data presented in this report is directly related to the completeness and accuracy of the information contained on the certificates. The MDH works to ensure that the information received is as complete and accurate as possible, and maintains two major program operations related to improving the quality of information received on certificates.

The query program is a system used to check back with hospital personnel, funeral directors, and/or physicians concerning incomplete or conflicting information. The follow-up contact is usually done by telephone and is based both on a manual and computer editing procedure.

The field program attempts to improve certificate information by educating the participants in the vital registration system, i.e., hospital personnel, funeral directors, physicians, etc., of the uses and importance of vital statistics data. The field program completes this mission by conducting seminars with various associations representing the types of individuals listed above. In addition to regularly scheduled seminars, the field representative makes site visits when problems with registration relating to a particular area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Minnesota's coding of statistical data. NCHS has established a two percent upper limit for coding difference involving any one data item, with the exception of cause of death. A five percent limit is established for this item due to the complexity of the coding process.

Please note that some of the tables which include cause of death were modified slightly in 1979 to accommodate changes resulting from the adoption of a revised cause of death coding scheme -- The Ninth Revision

of the International Classifica ion of Diseases (ICD). The vast majority of cause of death categories remain comparable with previous years' tables. However, changes in definitions of rheumatic heart disease, nephritis and nephrosis, and hypertensive heart between the Eighth Revision of the ICD and the Ninth Revision have caused noticeable differences in the numbers of deaths attributed to those categories between 1978 and 1981.

Mention should also be made here of modification to the birth certificate. Due to a change in definition the item "Other Significant Conditions of Child" is presently coded to include all conditions of significance to the child at birth and is not limited to birth injuries as was the case prior to 1981. Please note that tables of selected natality statistics will reflect this change in definition.

Population

The 1981 population estimates used are the only known source of population data by age group, sex and county available at the time of publication of this report. In 1980, the census data were used to estimate the state population. These data were considered to be highly accurate due to various checking and follow-up procedures. The 1981 estimates are postcensal estimates, and a modified version of the cohort-component method was used to obtain them. This is an established method of estimating population and is normally very accurate if birth, death, census and migration data are of good quality. Although these estimates are not as accurate as an actual census, they are still very useful estimators of the actual population of Minnesota. All rates in this publication have been calculated using these 1981 population estimates as a denominator.

Occupational Injuries and Illnesses

Nature of Injury or Illness, Source of Injury or Illness, Type of Accident and Part of Body affected are coded according to ANSIZ 16.2--1962 "Method of Recording Basic Facts Relating to the Nature and Occurrence of Work Injuries." Occupations are coded using Census Bureau Codes. Industries are coded using four digit Standard Industry Classification Codes.

The quality of occupational injuries and illnesses estimates is related to the completeness and the accuracy of coding the "First Report of Injury" as well as the validity of the sampling technique employed in deriving the estimates. Extensive input editing by computer entry programs is performed on basic codes. Also, periodic reviews by Regional Bureau of Labor Statistics personnel are performed to audit the coding function.

It should be noted here that estimates of occupational injuries and illnesses were based on a sampling ratio (1:3) where each record was multiplied by three to provide the 1981 estimate.

C. GEOGRAPHIC ALLOCATION

Vital Events

Vital events can be classified geographically in two ways. The first way is by place of occurrence, i.e., the actual state, county and minor civil division in which the birth or death took place. The second and more customary way is by place of residence, i.e, the state, county and minor civil division stated to be the usual residence of the decedent in the case of deaths or of the mother in the case of a newborn. Fetal deaths and infant deaths, in cases where the child was never discharged from the hospital, are classified to the residence of the mother.

While occurrence statistics are accurate and have both administrative value and some statistical importance, residence statistics are by far the more useful tool when constructing health indices for planning and evaluation purposes. The statistics provided in this report are residence data unless otherwise stated.

Allocation of vital events by place of residence is sometimes difficult, because classification depends entirely on the statement of the usual place of residence furnished by the informant at the time the original certificate is completed. For various reasons, this statement may be incorrect or incomplete. For example, mailing addresses very often differ from the actual geographic residence.

Where the mailing address is a rural delivery number or when an unincorporated place is given as the place of residence, it is seldom possible to allocate the event to a specific township or the correct minor civil division, if this information is not supplied. How often incorrect information on residence is recorded is not known, but it is generally due to lack of information concerning the exact location of residence or misunderstanding of the question on the part of the informant.

This problem is applicable generally only to minor civil division level data. Resident counts for the state as a whole are, for all practical purposes, very accurate. County resident figures are substantially correct and can be used with a high degree of confidence .

Each of Minnesota's 87 counties is classified into one of eight health districts, the borders of which can be made to correspond to a Health Systems Agency (HSA). The Health Systems Agencies, established under PL 93-641, are regional agencies designated for geographic locations for the planning and development of health services. Some data presented in this report are aggregated by MDH health district. Figure 8 is a map showing the county distribution of the health districts and health service areas in Minnesota.

Population

The 1981 population estimates by age group and sex are available at the state and county level, as well as estimates for Minneapolis, St.

Paul and Duluth. Estimates of the 1981 population of every city and township outside the seven-county Twin Cities Metropolitan Area were created by the Office of the State Demographer. These estimates, however, are not broken down by age group or sex. In addition, estimates of population of cities and townships inside the seven-county Twin Cities Metropolitan Area were created by the Metropolitan Council.

D. DEFINITIONS OF RATES

Absolute counts of health-related events do not readily lend themselves to analysis and comparison between years and between various geographic areas because of population differences. These demographic differences include total number, age and sex distributions, and ethnic or racial differentials. In order to assess the health status of a particular population at a specified time, the absolute number of events is converted to a relative number such as a probability of living or dying, a rate, a ratio, or an index. This conversion is made by relating the crude number of events to the living population at risk in a particular area at a specified time.

The following types of rates are used in this report:

CRUDE BIRTH RATE: Number of live births per 1,000 population.

FERTILITY RATE: Number of live births to mothers in a specified age group per 1,000 females aged 15-44.

NEONATAL DEATH RATE: Number of infants dying under 28 days of age per 1,000 live births.

INFANT DEATH RATE: Deaths under one year of age per 1,000 live births.

CRUDE DEATH RATE: Number of deaths per 1,000 population.

AGE SPECIFIC DEATH RATE: Number of deaths for a specified age group per 1,000 population in the same age group.

CAUSE SPECIFIC DEATH RATE: Number of deaths from a specified cause per 100,000 population.

ABORTION RATE: Number of abortions performed per 1,000 females aged 15-44.

OCCUPATIONAL INJURY AND ILLNESS RATE: See page 74.

Overview of 1981 Vital Statistics

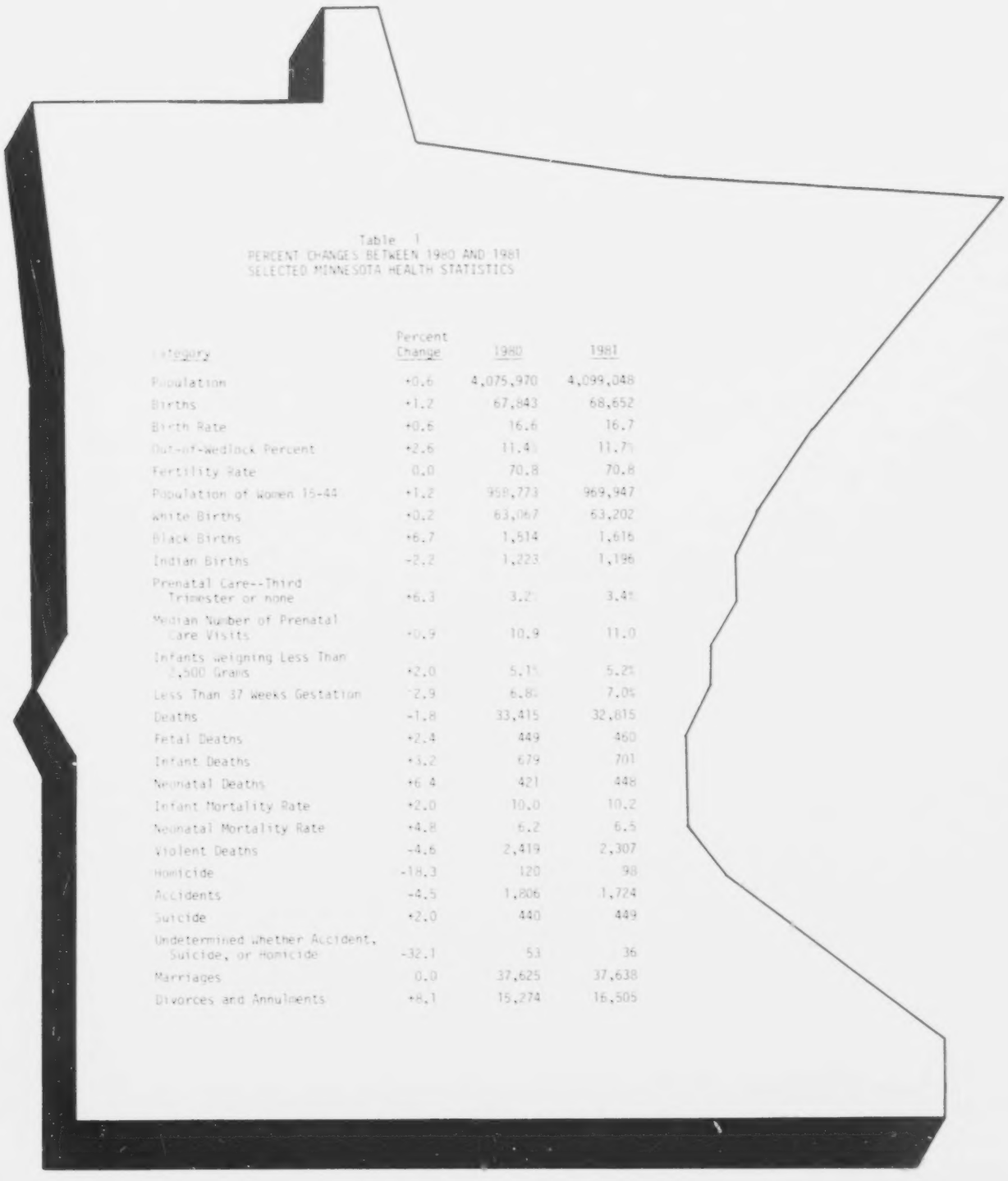


Table 1
PERCENT CHANGES BETWEEN 1980 AND 1981
SELECTED MINNESOTA HEALTH STATISTICS

Category	Percent Change	1980	1981
Population	+0.6	4,075,970	4,099,048
Births	+1.2	67,843	68,652
Birth Rate	+0.6	16.6	16.7
Out-of-Wedlock Percent	+2.6	11.4%	11.7%
Fertility Rate	0.0	70.8	70.8
Population of Women 15-44	+1.2	958,773	969,947
White Births	+0.2	63,067	63,202
Black Births	+6.7	1,514	1,616
Indian Births	-2.2	1,223	1,196
Prenatal Care--Third Trimester or none	+6.3	3.2%	3.4%
Median Number of Prenatal Care Visits	+0.9	10.9	11.0
Infants weighing Less Than 2,500 Grams	+2.0	5.1%	5.2%
Less Than 37 weeks Gestation	+2.9	6.8%	7.0%
Deaths	-1.8	33,415	32,815
Fetal Deaths	+2.4	449	460
Infant Deaths	+3.2	679	701
Neonatal Deaths	+6.4	421	448
Infant Mortality Rate	+2.0	10.0	10.2
Neonatal Mortality Rate	+4.8	6.2	6.5
Violent Deaths	-4.6	2,419	2,307
Homicide	-18.3	120	98
Accidents	-4.5	1,806	1,724
Suicide	+2.0	440	449
Undetermined whether Accident, Suicide, or Homicide	-32.1	53	36
Marriages	0.0	37,625	37,638
Divorces and Annulments	+8.1	15,274	16,505

Table 2
BIRTHS, DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES,
DIVORCES AND ANNULMENTS BY MONTH
MINNESOTA OCCURRENCES, 1981

	Births	Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces & Annulments
Total	68,989	33,343	726	474	37,638	16,505
January	5,362	3,195	74	49	1,601	1,237
February	5,266	2,835	61	32	2,047	1,174
March	6,101	2,765	57	37	1,738	1,496
April	5,618	2,648	69	37	2,375	1,531
May	5,806	2,776	72	42	4,119	1,329
June	5,878	2,614	52	39	5,110	1,649
July	6,127	2,715	58	42	3,516	1,311
August	6,086	2,633	64	46	5,155	1,349
September	6,052	2,572	51	34	4,082	1,288
October	5,777	2,939	66	37	3,487	1,389
November	5,348	2,718	45	32	2,318	1,272
December	5,568	2,933	57	46	2,090	1,480
Unknown	-	-	-	1	-	-

Table 3
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS
BY URBAN AREA OF RESIDENCE, MINNESOTA, 1981

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Aftcn	26	-	15	2	1
Albert Lea	289	2	220	3	2
Alexandria	134	1	140	2	2
Andover	131	2	11	1	1
Anoka	410	4	125	3	2
Apple Valley	458	1	29	6	4
Arden Hills	106	-	59	1	1
Aurora	61	-	32	2	1
Austin	328	3	261	2	2
Baxter	23	-	10	1	1
Bayport	35	-	26	1	1
Belle Plaine	45	-	40	-	-
Bemidji	184	-	101	3	1
Benson	57	-	56	-	-
Blaine	629	4	73	4	1
Bloomington	1,034	8	391	12	7
Blue Earth	61	-	55	-	-
Brainerd	238	-	168	7	4
Breckenridge	60	-	53	3	3
Brooklyn Center	467	5	179	7	3
Brooklyn Park	1,053	5	118	6	3
Buffalo	120	-	72	1	1
Burnsville	637	6	94	3	2
Caledonia	25	-	35	1	1
Cambridge	70	-	67	1	1
Cannon Falls	72	-	44	1	1
Champlin	207	3	28	-	-
Chanhassen	102	-	16	1	-
Chaska	230	2	49	3	2
Chisholm	116	-	81	2	1
Circle Pines	91	-	11	-	-
Cloquet	210	2	123	1	1
Columbia Heights	270	-	155	1	-
Coon Rapids	677	4	133	11	8
Corcoran	91	-	15	-	-
Cottage Grove	381	-	37	3	2
Crookston	161	1	98	3	3
Crystal	342	1	155	1	1
Dayton	60	-	12	2	2
Deephaven	44	-	13	-	-

Table 3
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS
BY URBAN AREA OF RESIDENCE, MINNESOTA, 1981 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Detroit Lakes	102	1	123	3	3
Dilworth	65	-	12	2	1
Duluth	1,542	9	1,055	21	14
Eagan	460	5	44	4	2
East Bethel	107	1	9	2	-
East Grand Forks	169	-	73	1	-
Eden Prairie	365	1	36	2	1
Edina	334	-	381	3	2
Elk River	133	-	61	-	-
Ely	64	-	79	-	-
Eveleth	89	1	54	1	1
Excelsior	64	-	41	1	1
Fairmont	197	2	113	1	1
Falcon Heights	75	2	22	-	-
Faribault	319	4	194	3	2
Farmington	146	1	33	2	2
Fergus Falls	197	2	164	1	-
Forest Lake	146	-	60	-	-
Fridley	500	3	116	8	7
Gilbert	46	2	26	1	-
Glencoe	74	1	36	-	-
Glenwood	40	1	61	1	1
Golden Valley	215	1	175	3	-
Goodview	28	-	15	2	-
Grand Rapids	145	3	103	1	-
Granite Falls	51	-	37	1	-
Ham Lake	125	1	18	1	1
Hastings	256	-	85	1	-
Hermantown	24	-	14	-	-
Hibbing	337	2	224	1	-
Hopkins	246	5	156	-	-
Hoyt Lakes	58	1	17	1	1
Hugo	65	-	17	1	1
Hutchinson	135	1	107	2	2
Independence	17	-	11	1	1
International Falls	145	-	85	1	-
Inver Grove Heights	360	1	70	2	1
Jackson	71	-	49	-	-
Jordan	83	1	18	-	-
Kasson	96	4	13	-	-

Table 3
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS
BY URBAN AREA OF RESIDENCE, MINNESOTA, 1981 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
La Crescent	65	-	33	1	-
Lake City	63	-	67	1	1
Lake Elmo	109	2	20	2	1
Lakeville	215	2	39	2	1
Le Sueur	55	1	47	1	1
Lino Lakes	103	-	12	-	-
Litchfield	118	1	94	-	-
Little Canada	118	-	25	1	1
Little Falls	141	2	107	3	1
Long Prairie	73	1	35	-	-
Luverne	69	-	65	1	1
Mahtomedi	67	-	26	1	-
Mankato	503	-	223	5	5
Maple Grove	560	2	43	4	1
Maplewood	394	4	180	-	-
Marshall	198	-	78	4	3
Medina	50	-	9	1	1
Mendota Heights	67	-	35	-	-
Minneapolis	6,225	67	4,044	70	46
Minnetonka	461	3	181	3	2
Minnetrista	15	-	6	-	-
Montevideo	98	1	75	2	1
Monticello	95	1	39	1	1
Moorhead	447	1	191	5	4
Mora	39	1	60	-	-
Morris	84	-	75	1	1
Mound	186	-	59	-	-
Mounds View	193	-	27	3	2
Mountain Iron	65	-	24	-	-
New Brighton	388	2	120	5	4
New Hope	301	1	138	2	1
Newport	86	-	18	1	-
New Prague	93	-	40	2	1
New Ulm	236	3	141	2	1
Northfield	131	3	108	2	-
North Mankato	204	1	50	4	3
North Oaks	19	-	5	-	-
North St. Paul	194	-	54	1	1
Oakdale	248	2	41	-	-
Oak Park Heights	15	-	26	1	1

Table 3
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1981 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Olivia	49	1	44	1	1
Orono	47	2	28	2	1
Ortonville	40	-	35	1	-
Osseo	68	-	47	-	-
Owatonna	347	4	172	5	5
Park Rapids	51	-	117	3	2
Pipestone	78	1	64	-	-
Plymouth	528	4	94	3	1
Princeton	66	-	61	4	2
Prior Lake	172	1	34	3	2
Proctor	61	-	33	-	-
Ramsey	149	-	23	-	-
Red Wing	209	1	155	2	2
Redwood Falls	84	1	52	1	1
Richfield	517	3	258	3	3
Robbinsdale	195	-	134	-	-
Rochester	1,151	8	432	10	7
Rosemount	118	1	19	1	1
Roseville	382	4	217	2	1
St. Anthony	91	-	60	3	3
St. Cloud	783	4	320	8	7
St. James	81	-	49	-	-
St. Joseph	68	-	13	2	1
St. Louis Park	546	3	354	6	5
St. Paul	5,124	37	2,739	61	36
St. Paul Park	99	1	30	2	-
St. Peter	129	1	61	2	2
Sartell	96	1	39	3	1
Sauk Centre	63	-	48	2	2
Sauk Rapids	130	-	63	1	-
Savage	77	-	18	3	2
Shakopee	203	1	53	1	1
Shoreview	263	1	41	1	1
Shorewood	41	-	20	-	-
Silver Bay	48	-	8	1	-

Table 3
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1981 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Sleepy Eye	61	-	50	1	1
S. International Falls	38	1	9	-	-
S. St. Paul	340	3	170	4	-
Spring Lake Park	121	-	15	1	-
Spring Valley	44	-	41	-	-
Staples	38	-	47	1	-
Stewartville	105	-	39	1	-
Stillwater	274	3	128	5	4
Thief River Falls	145	-	108	2	-
Two Harbors	78	1	77	1	1
Vadnais Heights	160	-	20	1	1
Virginia	165	4	144	2	2
Waconia	50	1	34	1	1
Wadena	61	-	62	-	-
Waite Park	76	-	19	-	-
Waseca	175	1	81	4	2
Wayzata	70	-	49	-	-
Wells	60	-	52	-	-
West St. Paul	230	1	201	-	-
White Bear Lake	478	6	135	4	3
Willmar	283	-	171	4	2
Windom	76	1	55	-	-
Winona	364	2	261	7	5
Woodbury	180	2	48	3	3
Worthington	152	-	110	1	-

* Municipalities with population of 2,500 or more.

Live Births

Every day in 1981, residents of Minnesota experienced an average of:

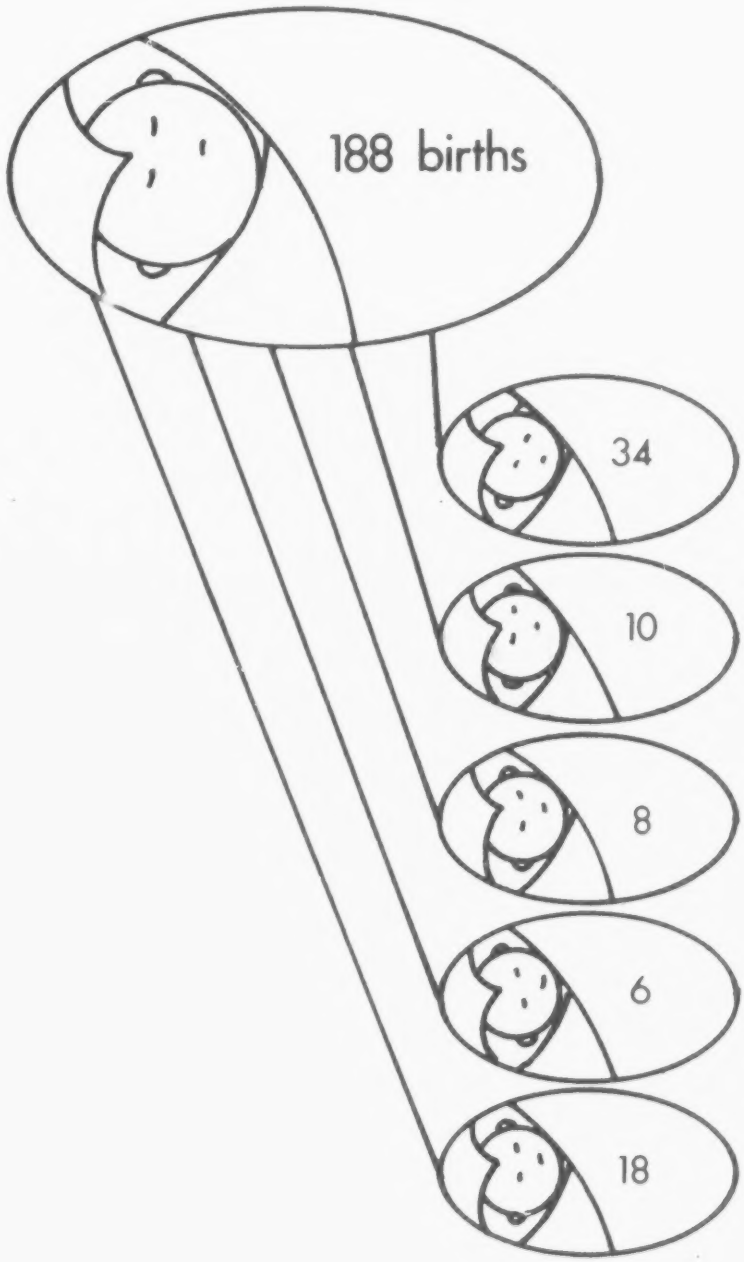


Table 4
LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1981

County	Births Occurring in County				Resident Births		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Outside County Within Minnesota	Outside County Outside Minnesota	Total
State Total	68,989	47,054	19,725	2,210	19,725	1,873	68,652
Aitkin	125	109	16	-	84	1	194
Anoka	3,749	2,225	1,518	6	1,475	1	3,701
Becker	516	372	143	1	89	60	521
Beltrami	756	571	181	4	36	5	612
Benton	2	2	-	-	590	-	592
Big Stone	185	91	33	61	17	8	116
Blue Earth	1,403	820	579	4	62	-	882
Brown	630	424	206	-	42	1	467
Carlton	381	246	133	2	203	3	452
Carver	765	309	455	1	408	-	717
Cass	59	35	24	-	285	2	322
Chippewa	217	145	70	2	108	1	254
Chisago	281	165	112	4	223	58	446
Clay	390	273	39	78	16	486	775
Clearwater	116	88	28	-	51	2	141
Cook	42	39	2	1	19	-	58
Cottonwood	141	108	33	-	88	2	198
Crow Wing	788	633	151	4	72	-	705
Dakota	825	620	157	48	2,859	6	3,485
Dodge	-	-	-	-	283	1	284
Douglas	577	435	142	-	36	-	471
Faribault	239	192	16	31	126	-	318
Fillmore	136	86	44	6	201	68	355
Freeborn	658	491	118	49	51	5	547
Goodhue	781	472	98	211	166	2	640
Grant	52	44	8	-	69	-	113
Hennepin	19,022	13,291	5,645	86	1,349	35	14,675
Minneapolis	10,721	4,456	6,207	58	1,759	10	6,225
Houston	66	53	9	4	12	217	282
Hubbard	274	148	126	-	55	10	213
Isanti	485	259	225	1	137	3	399
Itasca	710	638	72	-	155	-	793
Jackson	73	58	13	2	132	23	213
Kanabec	248	131	116	1	83	2	216
Kandiyohi	888	601	286	1	57	-	658
Kittson	107	76	29	2	28	21	125
Koochiching	223	215	7	1	36	11	262
Lac Qui Parle	134	126	3	5	56	9	191
Lake	116	104	12	-	91	1	196
Lake of the Woods	84	60	24	-	4	1	65
Le Sueur	77	59	18	-	358	-	417
Lincoln	126	76	25	25	45	14	135
Lyon	500	395	105	-	50	7	452
McLeod	517	351	166	-	95	-	446
Mahnomen	37	30	7	-	73	9	112

Table 4
LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1981 (CONT.)

County	Births Occurring in County				Resident Births		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Marshall	53	42	9	2	118	64	224
Martin	461	352	34	75	36	4	392
Meeker	282	212	70	-	169	1	382
Mille Lacs	394	249	145	-	67	1	317
Morrison	588	488	100	-	89	1	578
Mower	486	430	49	7	121	26	577
Murray	102	80	21	1	83	12	175
Nicollet	156	90	66	-	385	-	475
Nobles	490	262	190	38	59	30	351
Norman	35	30	4	1	58	54	142
Olmsted	2,602	1,639	910	53	19	2	1,660
Otter Tail	669	581	85	3	200	39	820
Pennington	442	216	225	1	14	14	244
Pine	28	24	3	1	299	15	338
Pipestone	172	130	32	10	27	25	182
Polk	397	302	91	4	63	220	585
Pope	122	98	24	-	85	-	183
Ramsey	9,364	6,045	3,105	214	1,902	18	7,965
St. Paul	9,348	4,148	4,987	213	963	13	5,124
Red Lake	12	10	2	-	83	3	96
Redwood	259	202	57	-	120	-	322
Renville	149	136	7	6	199	-	335
Rice	687	553	133	1	147	-	700
Rock	241	139	67	35	5	27	171
Roseau	181	156	19	6	56	7	219
St. Louis	4,343	3,326	489	528	79	9	3,414
Duluth	2,756	1,525	704	527	11	6	1,542
Scott	1,017	514	502	1	305	1	820
Sherburne	1	1	-	-	600	1	602
Sibley	126	117	9	-	123	-	240
Stearns	2,970	1,879	1,086	5	159	6	2,044
Steele	530	443	85	2	103	3	549
Stevens	201	155	46	-	33	-	188
Swift	100	90	9	1	92	2	184
Todd	313	246	66	1	240	7	493
Traverse	81	40	17	24	32	7	79
Wabasha	262	168	31	63	182	2	352
Wadena	416	176	239	1	46	7	229
Waseca	208	174	34	-	170	-	344
Washington	645	367	168	110	1,615	30	2,012
Watonwan	199	165	33	1	36	-	201
Wilkin	437	97	24	316	10	20	127
Winona	605	491	65	49	121	137	749
Wright	411	333	78	-	840	-	1,173
Yellow Medicine	251	140	102	9	60	3	203

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1981

	State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	Brown
Live Births	68,652	194	3,701	521	612	592	116	882	467
Fertility Rate	70.8	77.1	70.0	83.3	76.2	94.2	84.5	65.2	76.1
Birth Rate	16.7	14.2	18.5	17.1	18.8	22.8	15.1	16.9	16.5
Sex: Male	35,450	89	1,915	270	305	309	67	478	235
Female	33,202	105	1,786	251	307	283	49	404	232
Out-of-Wedlock, Percent	11.7	11.3	10.1	15.9	27.0	9.1	8.6	11.3	6.9
Race: White	63,202	186	3,054	452	444	583	113	864	462
Black	1,617	1	6	1	1	1	-	6	-
Indian	1,196	5	28	65	160	-	2	4	-
Live Birth Order									
Median	2.2	2.4	2.2	2.5	2.3	2.4	2.5	2.2	1.9
5th or over	3.4	4.1	1.3	7.7	5.6	6.8	8.6	3.1	3.0
Prematurity, Percent									
Less than 37 weeks	7.0	4.6	5.4	7.3	8.7	7.1	6.0	7.4	3.0
2,500 grams or less	5.2	5.2	4.2	4.2	4.1	3.2	6.9	5.3	3.2
Plurality:									
Single	67,293	194	3,626	508	610	587	107	858	449
Twin	1,330	-	75	13	2	5	9	24	18
Triplet	29	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	2.8	3.1	2.5	5.0	4.9	3.0	1.7	3.1	2.1
18-19	6.9	8.8	6.8	7.7	10.5	6.8	9.5	5.9	5.4
40 and over	.6	.5	.2	.6	.8	.7	1.7	.7	1.3
Mother's Education, Percent									
Less than 12 years	10.1	11.9	7.8	15.9	19.0	8.1	7.8	7.5	2.1
Over 3 years college	16.6	10.8	11.5	9.2	14.5	13.5	16.4	22.0	5.1
Prenatal Care Began, Percent									
3rd Trimester or none	3.4	4.1	2.1	3.5	4.1	1.9	12.1	2.0	.9
Prenatal Care Visits									
Median	11.0	9.8	10.8	10.7	10.4	10.6	10.8	11.6	10.7
Congenital Anomalies, Percent	1.4	2.6	.8	1.9	2.0	1.4	-	1.2	1.9
High Risk, Percent	18.1	18.0	13.3	17.1	22.1	15.4	19.0	14.9	14.1
Other Sign. Cond. of Child, †	4.2	5.2	1.9	3.1	5.7	1.9	1.7	2.6	5.4
Infant Deaths									
Total	701	3	37	9	8	6	2	12	4
White	631	3	37	8	6	6	2	12	4
Black	41	-	-	-	-	-	-	-	-
Indian	13	-	-	-	2	-	-	-	-
Neonatal Deaths									
Total	448	3	23	4	3	2	1	11	3
White	404	3	23	3	3	2	1	11	3
Black	30	-	-	-	-	-	-	-	-
Indian	5	-	-	-	-	-	-	-	-
First Day Deaths									
Total	253	2	12	1	2	2	-	6	2
White	227	2	12	1	2	2	-	6	2
Black	20	-	-	-	-	-	-	-	-
Indian	3	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	125	1	9	3	-	-	-	4	1
White	113	1	9	2	-	-	-	4	1
Black	8	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	70	-	2	-	1	-	1	1	-
White	64	-	2	-	1	-	1	1	-
Black	2	-	-	-	-	-	-	-	-
Indian	2	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	461**	1	22	3	4	1	-	-	7
White	380	1	19	3	1	1	-	-	5
Black	25	-	-	-	-	-	-	-	-
Indian	12	-	-	-	3	-	-	-	-
Perinatal Rate	13.2	20.6	12.2	13.4	11.4	5.1	8.6	12.5	21.4
Maternal Deaths	2	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water	Cook	Cotton-wood	Crow Wing
Live Births	452	717	322	254	446	775	141	58	198	705
Fertility Rate	70.5	76.9	80.1	86.1	77.0	57.4	81.2	65.2	74.0	80.6
Birth Rate	15.1	18.6	15.1	16.8	17.0	15.7	15.6	13.9	13.8	17.0
Sex: Male	231	357	169	137	231	405	75	30	109	341
Female	221	360	153	117	215	370	66	28	89	364
Out-of Wedlock, Percent	11.3	5.3	23.3	4.7	11.4	10.2	13.5	10.3	9.6	15.5
Race: White	427	705	257	250	441	765	122	48	196	689
Black	-	-	1	-	2	1	-	-	-	2
Indian	23	2	64	2	1	5	19	9	2	7
Live Birth Order										
Median	2.2	2.3	2.4	2.4	2.4	2.3	2.6	2.5	2.4	2.3
5th or over	2.4	3.5	5.6	2.0	3.4	3.2	6.4	1.7	.5	4.7
Prematurity, Percent										
Less than 37 weeks	6.9	6.6	8.1	5.5	6.7	7.6	8.5	12.1	3.5	7.9
2,500 grams or less	6.4	4.2	8.1	4.7	5.2	7.5	2.1	10.3	4.0	7.0
Plurality:										
Single	442	701	315	249	432	753	140	56	198	692
Twin	10	16	7	5	14	22	1	2	-	13
Triplet	-	-	-	-	-	-	-	-	-	-
Mother's Age, Percent										
Under 18	2.7	1.5	7.8	3.1	3.4	2.2	5.0	1.7	2.5	4.7
18-19	10.0	5.4	8.7	7.1	9.6	7.6	11.3	5.2	7.6	10.5
40 and over	.2	.7	1.6	.4	.2	.1	2.1	-	-	1.4
Mother's Education, Percent										
Less than 12 years	11.5	7.5	18.0	6.3	10.1	8.5	19.1	10.3	10.1	13.6
Over 3 years college	10.4	13.9	9.9	13.8	12.3	19.1	10.6	19.0	13.1	10.8
Prenatal Care Began, Percent										
3rd Trimester or none	2.4	2.0	6.8	2.8	2.9	3.9	3.5	1.7	2.5	6.0
Prenatal Care Visits										
Median	10.7	11.7	8.7	10.3	10.3	11.6	10.3	12.6	11.0	9.2
Congenital Anomalies, Percent	1.5	1.8	.9	3.9	.7	1.7	1.4	3.4	3.0	1.7
High Risk, Percent	16.4	15.6	24.2	20.1	13.2	15.1	14.2	43.1	13.1	23.7
Other Sign. Cond. of Child,	5.8	3.2	6.8	7.9	3.1	3.4	2.1	19.0	2.0	6.2
Infant Deaths										
Total	6	10	2	3	3	12	1	3	-	16
White	5	10	2	3	3	12	1	2	-	16
Black	-	-	-	-	-	-	-	-	-	-
Indian	1	-	-	-	-	-	-	1	-	-
Neonatal Deaths										
Total	4	8	1	2	3	9	1	3	-	8
White	4	8	1	2	3	9	1	2	-	8
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	1	-	-
First Day Deaths										
Total	2	1	-	1	3	5	-	1	-	6
White	2	1	-	1	3	5	-	1	-	6
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-	-
1-6 Day Deaths										
Total	-	4	1	1	-	3	1	1	-	1
White	-	4	1	1	-	3	1	1	-	1
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-	-
7-27 Day Deaths										
Total	2	3	-	-	-	1	-	1	-	1
White	2	3	-	-	-	1	-	-	-	1
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	1	-	-
Fetal Deaths										
Total	2	6	3	2	3	2	2	-	3	4
White	2	6	2	2	3	2	2	-	3	3
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	1	-	-	-	-	-	-	-
Perinatal Deaths	13.3	19.5	12.4	15.7	13.5	14.2	21.3	51.7	15.2	17.0
Maternal Deaths	-	-	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Dakota	Dodge	Douglas	Fari-bault	Fill-more	Free-born	Good-hue	Grant	Hennepin	Minn-eapolis
Live Births	3,485	284	471	318	355	547	640	113	14,675	6,225
Fertility Rate	66.7	86.5	78.6	85.5	86.2	75.0	79.1	85.7	61.4	65.1
Birth Rate	17.6	18.9	16.6	16.2	16.1	15.3	16.4	15.4	15.7	16.9
Sex: Male	1,768	150	234	156	194	290	311	56	7,513	3,136
Female	1,717	134	237	162	161	257	329	57	7,162	3,089
Out-of-Wedlock, Percent	8.2	5.6	6.8	9.1	6.8	8.6	7.5	7.1	16.0	26.3
Race: White	3,386	281	469	315	354	541	630	112	12,498	4,541
Black	27	3	1	-	-	-	-	-	1,049	897
Indian	11	-	-	1	-	1	6	-	368	331
Live Birth Order										
Median	2.2	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.1	2.1
% 5th or over	2.3	3.9	2.8	3.1	4.2	2.2	3.0	6.2	2.6	3.6
Prematurity, Percent										
Less than 37 weeks	6.4	6.0	5.5	7.2	8.7	8.2	6.1	6.2	7.7	9.0
2,500 grams or less	4.7	5.3	3.4	3.1	6.5	5.1	5.2	2.7	5.8	7.2
Plurality:										
Single	3,420	280	469	316	347	537	625	105	14,360	6,084
Twin	62	4	2	2	8	10	15	8	309	141
Triplet	3	-	-	-	-	-	-	-	6	-
Mother's Age, Percent										
Under 18	1.9	2.8	2.3	3.5	2.8	3.3	2.0	1.8	2.8	4.5
18-19	5.1	8.8	7.2	5.3	9.6	8.2	8.9	5.3	5.5	7.1
40 and over	.4	.4	.2	.6	.3	.4	.8	-	.6	.7
Mother's Education, Percent										
Less than 12 years	6.7	8.1	8.1	10.4	11.5	11.9	9.5	4.4	11.7	19.4
Over 3 years college	9.7	12.7	11.9	16.0	10.4	10.4	14.1	10.6	23.6	21.4
Prenatal Care Began, Percent										
3rd Trimester or none	..2	3.9	1.1	5.0	3.4	3.8	2.2	-	3.7	5.9
Prenatal Care Visits										
Median	11 6	11.1	12.1	10.6	10.6	10.3	11.9	12.3	11.9	11.6
Congenital Anomalies, Percent	1 ?	.7	2.1	1.6	1.4	1.5	1.7	1.8	1.2	1.5
High Risk, Percent	16.6	20.4	12.5	16.4	17.5	14.1	19.1	16.8	19.7	24.1
Other Sign. Cond. of Child, %	4.0	6.7	3.0	5.0	3.1	2.2	6.9	4.4	3.8	5.0
Infant Deaths										
Total	27	1	5	1	4	4	6	-	136	70
White	27	1	5	1	4	4	6	-	98	34
Black	-	-	-	-	-	-	-	-	24	22
Indian	-	-	-	-	-	-	-	-	8	8
Neonatal Deaths										
Total	15	1	5	1	2	3	5	-	86	46
White	15	1	5	1	2	3	5	-	59	21
Black	-	-	-	-	-	-	-	-	19	17
Indian	-	-	-	-	-	-	-	-	4	4
First Day Deaths										
Total	7	1	3	-	2	1	3	-	59	32
White	7	1	3	-	2	1	3	-	40	14
Black	-	-	-	-	-	-	-	-	14	13
Indian	-	-	-	-	-	-	-	-	3	3
1-6 Day Deaths										
Total	5	-	1	1	-	1	-	-	17	10
White	5	-	1	1	-	1	-	-	11	5
Black	-	-	-	-	-	-	-	-	4	3
Indian	-	-	-	-	-	-	-	-	-	-
7-27 Day Deaths										
Total	3	-	1	-	-	1	2	-	10	4
White	3	-	1	-	-	1	2	-	8	2
Black	-	-	-	-	-	-	-	-	1	1
Indian	-	-	-	-	-	-	-	-	1	1
Fetal Deaths										
Total	23	5	4	3	2	2	3	1	115	67
White	21	5	4	3	2	2	2	1	85	40
Black	-	-	-	-	-	-	-	-	16	15
Indian	-	-	-	-	-	-	-	-	2	2
Perinatal Rate	10.9	21.1	19.1	12.6	11.3	9.1	12.5	8.8	13.7	18.2
Maternal Deaths	-	-	-	1	-	-	-	-	1	1

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Houston	Hubbard	Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching
Live Births	282	213	399	793	213	216	658	125	262
Fertility Rate	74.5	74.2	69.1	81.9	80.7	85.1	75.3	103.8	66.9
Birth Rate	15.4	14.7	16.0	17.5	15.8	17.6	17.0	18.8	14.6
Sex: Male	153	109	189	408	115	107	333	66	130
Female	129	104	210	385	98	109	325	59	132
Out-of-Wedlock, Percent	5.7	11.7	10.5	12.4	5.2	8.8	7.6	6.4	12.2
Race: White	281	205	382	702	211	214	655	121	240
Black	1	-	1	1	-	-	-	-	-
Indian	-	7	2	84	1	1	2	2	11
Live Birth Order									
Median	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.1
5th or over	7.1	6.6	4.0	3.5	1.9	2.8	1.5	1.6	1.5
Prematurity, Percent									
Less than 37 weeks	7.4	6.1	6.8	4.8	7.5	7.9	6.7	4.8	3.8
2,500 grams or less	5.7	6.6	5.0	3.7	5.2	6.9	5.9	4.8	5.0
Plurality:									
Single	273	209	391	787	211	212	637	121	256
Twin	7	4	8	6	2	4	18	4	6
Triplet	2	-	-	-	-	-	3	-	-
Mother's Age, Percent									
Under 18	2.1	3.8	3.8	4.7	1.9	6.0	3.0	.8	2.7
18-19	5.3	7.5	14.3	9.7	4.2	14.8	6.4	8.8	7.6
40 and over	.4	1.9	.5	.3	-	.9	.2	-	.8
Mother's Education, Percent									
Less than 12 years	8.2	11.3	15.3	13.1	7.0	13.0	9.3	10.4	14.5
Over 3 years college	17.4	12.2	11.8	9.3	14.6	11.1	11.1	16.8	9.5
Prenatal Care Began, Percent									
3rd Trimester or none	3.5	4.7	2.3	3.2	4.2	4.6	1.5	4.8	1.9
Prenatal Care Visits									
Median	11.1	8.2	10.8	10.2	11.8	10.2	10.6	9.7	9.3
Congenital Anomalies, Percent	1.4	1.9	2.0	1.9	1.9	3.2	1.8	.8	.4
High Risk, Percent	14.9	19.2	15.8	16.5	13.1	22.2	16.1	15.2	9.2
Other Sign. Cond. of Child, %	2.1	2.3	5.5	4.4	2.3	6.5	7.0	2.4	3.1
Infant Deaths									
Total	6	4	4	5	-	1	6	-	1
White	6	4	4	5	-	1	6	-	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	4	3	3	2	-	1	4	-	-
White	4	3	3	2	-	1	4	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	2	1	1	1	-	1	3	-	-
White	2	1	1	1	-	1	3	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	2	2	2	1	-	-	1	-	-
White	2	2	2	1	-	-	1	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	-	-	-	-	-	-	-	-
White	-	-	-	-	-	-	-	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	-	1	1	5	3	4	4	1	2
White	-	1	1	1	3	3	4	1	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	2	-	-	-	-	-
Perinatal Rate	14.2	18.8	10.0	8.8	14.1	23.1	12.2	8.0	7.6
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Lac Qui Parle	Lake	Lake of the Woods	Le Sueur	Lincoln	Lyon	Mc-Leod	Mahnomen	Marshall
Live Births	191	196	65	417	135	452	446	112	224
Fertility Rate	101.1	70.3	88.0	85.5	92.3	78.9	71.1	106.6	87.9
Birth Rate	18.3	14.7	16.7	17.9	16.5	17.7	15.1	19.5	17.2
Sex: Male	102	106	30	221	63	233	228	66	126
Female	89	90	35	196	72	219	218	46	98
Out-of-Wedlock, Percent	4.7	8.7	10.8	5.0	2.2	5.5	6.5	22.3	8.0
Race: White	187	195	61	415	135	448	442	70	223
Black	-	-	-	2	-	1	-	-	-
Indian	-	1	2	-	-	2	2	42	-
Live Birth Order									
Median	2.3	2.3	3.0	2.4	2.5	2.4	2.2	2.4	2.3
5th or over	3.1	2.0	10.8	6.2	6.7	3.1	4.0	9.8	4.9
Prematurity, Percent									
Less than 37 weeks	8.4	7.1	1.5	5.3	5.9	5.3	9.4	8.0	5.4
2,500 grams or less	5.2	8.2	1.5	3.4	5.2	2.2	4.7	5.4	1.3
Plurality:									
Single	187	192	63	411	135	444	439	112	224
Twin	4	4	2	6	-	8	7	-	-
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	3.1	3.1	3.1	2.2	4.4	2.0	1.8	9.8	4.5
18-19	6.3	6.6	4.6	6.0	7.4	6.9	8.1	11.6	6.7
40 and over	.5	1.0	3.1	.5	1.5	.2	.4	.9	.4
Mother's Education, Percent									
Less than 12 years	9.9	6.1	9.2	6.7	14.8	8.6	7.8	21.4	15.2
Over 3 years college	14.1	16.8	13.8	14.4	10.4	16.8	9.6	8.0	13.4
Prenatal Care Began, Percent									
3rd Trimester or none	3.1	4.1	4.6	2.6	3.7	3.1	.7	5.4	3.1
Prenatal Care Visits									
Median	10.3	10.8	7.9	11.1	10.1	11.1	11.3	9.5	10.7
Congenital Anomalies, Percent	1.6	.5	-	1.2	1.5	2.4	1.3	2.7	.9
High Risk, Percent	19.4	23.5	18.5	14.1	20.7	15.5	14.6	21.4	12.5
Other Sign. Cond. of Child, %	5.2	6.6	3.1	4.8	8.1	4.4	3.4	2.7	1.3
Infant Deaths									
Total	1	3	2	6	1	5	5	1	-
White	1	3	2	5	1	5	5	1	-
Black	-	-	-	1	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	-	2	1	5	1	4	3	1	-
White	-	2	1	4	1	4	3	1	-
Black	-	-	-	1	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	-	1	1	2	1	3	3	-	-
White	-	1	1	2	1	3	3	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	-	1	-	2	-	1	-	-	-
White	-	1	-	1	-	1	-	-	-
Black	-	-	-	1	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	-	-	1	-	-	-	1	-
White	-	-	-	1	-	-	-	1	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	2	1	-	5	-	-	4	1	3
White	2	1	-	5	-	-	4	-	3
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	1	-
Perinatal Rate	10.5	15.3	15.4	24.0	7.4	8.8	15.7	17.9	13.4
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Martin	Meeker	Mille Lacs	Morrison	Mower	Murray	Nicollet	Nobles	Norman
Live Births	392	382	317	578	577	175	475	351	142
Fertility Rate	79.8	93.9	84.9	97.7	73.2	81.2	68.7	78.4	86.3
Birth Rate	16.0	18.3	17.2	19.7	14.4	15.2	17.5	15.8	15.1
Sex: Male	208	180	166	310	289	87	247	170	76
Female	184	202	151	268	288	88	228	181	66
Out-of-Wedlock, Percent	5.6	6.0	13.9	10.7	7.3	4.6	8.6	5.4	4.9
Race: White	392	380	295	573	571	175	472	348	138
Black	-	-	-	-	2	-	1	-	-
Indian	-	-	21	3	1	-	1	-	2
Live Birth Order									
Median	2.1	2.5	2.4	2.5	2.3	2.3	2.1	2.4	2.5
5th or over	1.5	5.2	4.4	8.8	2.9	2.9	2.1	2.3	5.6
Prematurity, Percent									
Less than 37 weeks	5.6	6.3	6.9	7.3	4.7	2.9	5.7	6.0	2.8
2,500 grams or less	3.6	3.9	5.0	3.8	4.0	5.7	6.5	4.8	5.6
Plurality:									
Single	388	376	313	564	569	169	462	343	140
Twin	4	6	4	14	8	6	13	8	2
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	2.3	3.1	5.0	4.3	2.3	.6	1.9	1.1	2.1
18-19	7.7	7.3	10.4	11.1	9.2	10.3	6.1	7.1	9.9
40 and over	.5	.5	.9	1.4	.5	.6	.4	1.1	-
Mother's Education, Percent									
Less than 12 years	8.9	10.7	12.9	12.5	10.1	5.1	6.3	6.3	7.0
Over 3 years college	9.9	12.6	10.7	7.4	12.0	9.7	18.1	11.1	13.4
Prenatal Care Began, Percent									
3rd Trimester or none	2.6	3.4	2.5	1.4	4.3	.6	.8	3.4	2.1
Prenatal Care Visits									
Median	11.9	9.2	10.2	10.2	10.6	10.7	11.5	12.5	10.0
Congenital Anomalies, Percent	1.5	1.8	1.9	2.1	2.1	1.1	1.3	1.7	2.8
High Risk, Percent	10.7	20.2	20.5	12.3	19.2	13.1	17.3	12.3	18.3
Other Sign. Cond. of Child, %	3.3	5.0	6.3	2.1	6.1	2.3	7.2	2.3	6.3
Infant Deaths									
Total	3	3	6	9	5	1	10	4	1
White	3	3	6	9	5	1	10	4	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	2	-	2	5	3	-	8	3	-
White	2	-	2	5	3	-	8	3	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	1	-	2	3	1	-	5	3	-
White	1	-	2	3	1	-	5	3	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	1	-	-	1	2	-	2	-	-
White	1	-	-	1	2	-	2	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	-	-	1	-	-	1	-	-
White	-	-	-	1	-	-	1	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	4	5	2	7	4	2	2	1	-
White	4	5	1	7	4	2	2	1	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	1	-	-	-	-	-	-
Perinatal Rate	15.3	13.1	12.6	20.8	12.1	11.4	21.1	11.4	-
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Olmsted	Otter Tail	Penn-ington	Pine	Pipe-stone	Polk	Pope	Ramsey	St. Paul
Live Births	1,660	820	244	338	182	585	183	7,965	5,124
Fertility Rate	67.7	79.1	75.0	85.2	80.4	79.8	86.6	69.7	78.2
Birth Rate	17.8	15.3	16.5	16.8	15.4	16.8	15.5	17.4	19.1
Sex: Male	870	436	122	166	87	309	101	4,154	2,649
Female	790	384	122	172	95	276	82	3,811	2,475
Out-of-Wedlock, Percent	8.9	6.2	8.2	12.4	5.5	8.9	3.8	16.2	19.9
Race: White	1,597	809	242	333	180	568	183	6,686	4,013
Black	11	-	-	-	-	3	-	435	398
Indian	2	7	-	4	1	13	-	92	85
Live Birth Order									
Median	2.2	2.4	2.1	2.5	2.5	2.3	2.5	2.2	2.2
5th or over	2.3	5.6	2.0	3.0	3.8	2.9	2.7	4.3	5.8
Prematurity, Percent									
Less than 37 weeks	7.2	6.2	7.4	7.4	6.6	7.7	2.7	7.9	8.7
2,500 grams or less	4.6	5.4	6.6	2.7	7.1	3.8	2.2	6.4	7.2
Plurality:									
Single	1,628	802	239	332	180	575	183	7,816	5,016
Twin	32	18	2	6	2	10	-	143	102
Triplet	-	-	3	-	-	-	-	6	6
Mother's Age, Percent									
Under 18	1.8	3.3	1.6	3.6	1.1	2.9	-	3.4	4.3
18-19	6.0	6.6	7.4	9.5	7.7	7.2	9.3	7.1	7.9
40 and over	.8	1.0	-	.3	1.1	.5	.5	.9	1.1
Mother's Education, Percent									
Less than 12 years	5.7	9.4	10.2	18.6	4.9	10.9	4.4	12.3	16.1
Over 3 years college	21.8	11.2	6.6	10.9	19.2	11.3	9.3	20.1	18.1
Prenatal Care Began, Percent									
3rd Trimester or none	3.3	3.3	5.3	3.3	3.3	2.9	1.1	6.7	7.8
Prenatal Care Visits									
Median	11.2	11.1	10.3	9.9	10.2	10.5	11.6	11.0	10.9
Congenital Anomalies, Percent	1.1	1.6	-	1.5	.5	2.4	.5	1.0	1.1
High Risk, Percent	24.2	18.0	14.3	17.8	14.8	19.0	11.5	22.1	23.8
Other Sign. Cond. of Child,	6.9	5.4	2.0	4.1	4.4	5.0	3.3	4.5	4.9
Infant Deaths									
Total	13	8	2	3	-	6	1	81	61
White	13	8	2	3	-	6	1	57	38
Black	-	-	-	-	-	-	-	16	16
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	7	6	-	1	-	4	1	52	36
White	7	6	-	1	-	4	1	39	23
Black	-	-	-	-	-	-	-	10	10
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	4	3	-	1	-	2	1	29	19
White	4	3	-	1	-	2	1	22	12
Black	-	-	-	-	-	-	-	6	6
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	2	3	-	-	-	2	-	11	8
White	2	3	-	-	-	2	-	8	5
Black	-	-	-	-	-	-	-	3	3
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	1	-	-	-	-	-	-	12	9
White	1	-	-	-	-	-	-	9	6
Black	-	-	-	-	-	-	-	1	1
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	11	3	-	1	3	5	1	56	37
White	11	3	-	-	3	4	1	40	23
Black	-	-	-	-	-	-	-	9	8
Indian	-	-	-	1	-	1	-	-	-
Perinatal Rate	10.8	11.0	-	5.9	16.5	15.4	10.9	13.6	14.2
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Red Lake	Redwood	Renville	Rice	Rock	Roseau	St. Louis	Duluth	Scott
Live Births	96	322	335	700	171	219	3,414	1,542	820
Fertility Rate	89.8	86.8	87.5	60.6	82.0	84.4	69.0	70.5	72.8
Birth Rate	17.7	16.7	16.6	15.1	15.6	17.0	15.4	16.8	17.9
Sex: Male	48	168	177	374	87	123	1,793	797	449
Female	48	154	158	326	84	96	1,621	745	371
Out-of-Wedlock, Percent	7.3	4.3	5.4	9.0	4.1	9.6	14.2	18.1	8.0
Race: White	96	319	333	688	169	215	3,281	1,454	810
Black	-	-	-	1	-	1	26	25	4
Indian	-	3	2	1	-	1	68	34	1
Live Birth Order									
Median	2.6	2.5	2.5	2.4	2.3	2.4	2.2	2.1	2.3
5th or over	5.2	5.6	3.9	3.3	2.9	5.0	2.6	2.6	3.2
Prematurity, Percent									
Less than 37 weeks	4.2	5.0	9.3	6.6	4.7	12.8	8.0	7.8	5.9
2,500 grams or less	2.1	4.3	5.7	3.3	4.7	5.0	5.9	5.9	5.0
Plurality:									
Single	94	320	327	694	165	206	3,344	1,512	806
Twin	2	2	8	6	6	13	64	27	14
Triplet	-	-	-	-	-	-	6	3	-
Mother's Age, Percent									
Under 18	5.2	-	.9	3.1	2.9	.9	3.2	2.8	1.8
18-19	10.4	8.1	6.3	7.3	5.3	9.6	8.3	8.2	5.6
40 and over	1.0	.9	-	1.0	-	.9	.4	.4	1.0
Mother's Education, Percent									
Less than 12 years	7.3	5.3	5.1	10.7	4.7	9.6	12.0	11.5	7.2
Over 3 years college	13.5	12.4	10.7	16.0	10.5	10.5	14.9	17.5	14.6
Prenatal Care Began, Percent									
3rd Trimester or none	5.2	.9	1.8	2.7	.6	5.5	2.5	2.8	2.1
Prenatal Care Visits									
Median	9.9	10.9	10.8	11.3	11.5	9.1	10.6	10.4	11.0
Congenital Anomalies, Percent	2.1	2.2	1.2	2.1	1.8	1.4	1.4	1.2	1.5
High Risk, Percent	11.5	16.5	12.8	18.7	12.9	19.2	17.7	15.3	18.2
Other Sign. Cond. of Child, +	4.2	5.3	3.3	3.3	1.8	4.1	4.1	3.7	5.0
Infant Deaths									
Total	1	3	3	6	1	3	42	21	10
White	1	3	3	6	1	3	40	19	10
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	1	1	-
Neonatal Deaths									
Total	-	3	2	2	1	1	27	14	6
White	-	3	2	2	1	1	26	13	6
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	-	3	2	2	-	-	8	3	2
White	-	3	2	2	-	-	8	3	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	-	-	-	-	-	1	12	8	3
White	-	-	-	-	-	1	11	7	3
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	-	-	-	1	-	7	3	1
White	-	-	-	-	1	-	7	3	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	-	3	3	7	-	2	24	9	3
White	-	2	3	7	-	2	21	9	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	-	18.6	14.9	12.9	5.8	13.7	14.9	14.9	11.0
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 5
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Sherburne	Sibley	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
Live Births	602	240	2,044	549	188	184	493	79	352
Fertility Rate	79.3	81.2	73.7	77.9	74.7	76.4	97.1	81.6	89.6
Birth Rate	19.2	15.7	18.5	17.8	16.7	14.2	19.0	14.4	18.4
Sex: Male	313	117	1,077	295	99	95	238	39	181
Female	289	123	967	254	89	89	255	40	171
Out-of-Wedlock, Percent	9.5	5.0	9.2	6.6	2.1	8.2	7.3	8.9	6.5
Race: White	561	240	2,020	546	181	181	488	75	348
Black	-	-	3	1	1	-	1	-	-
Indian	-	-	2	-	-	1	1	3	1
Live Birth Order									
Median	2.4	2.3	2.4	2.3	3.0	2.5	2.6	2.4	2.4
5th or over	2.5	6.3	6.1	2.9	2.7	3.8	8.1	6.3	4.0
Prematurity, Percent									
Less than 37 weeks	7.0	2.1	7.7	7.1	4.3	7.1	7.7	12.7	6.3
2,500 grams or less	5.3	1.7	4.9	5.5	3.2	6.0	5.9	6.3	4.5
Plurality:									
Single	584	236	2,004	542	178	182	491	75	348
Twin	18	4	40	7	10	2	2	4	4
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	3.0	.8	2.5	2.7	.5	3.8	3.0	3.8	2.3
18-19	6.1	7.9	6.9	5.5	3.2	5.4	7.5	6.3	6.5
40 and over	.5	2.5	.9	.5	.5	.5	.6	-	.3
Mother's Education, Percent									
Less than 12 years	10.3	2.5	7.8	8.6	1.6	6.0	9.5	12.7	8.2
Over 3 years college	15.9	5.0	13.2	14.2	3.2	9.2	6.5	15.2	12.2
Prenatal Care Began, Percent									
3rd Trimester or none	1.3	.4	2.0	1.6	.5	3.3	4.5	6.3	4.3
Prenatal Care Visits									
Median	10.8	11.5	10.5	10.8	12.3	10.4	10.7	11.3	10.5
Congenital Anomalies, Percent	1.3	.8	1.6	1.8	.5	1.6	2.2	1.3	2.6
High Risk, Percent	13.8	12.5	16.9	18.0	16.0	20.7	22.7	22.8	19.9
Other Sign. Cond. of Child,	2.5	4.2	3.6	7.5	5.9	6.5	8.1	2.5	4.5
Infant Deaths									
Total	2	2	20	7	2	1	6	2	1
White	2	2	20	7	2	1	6	2	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	1	1	17	7	2	1	3	1	1
White	1	1	17	7	2	1	3	1	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	1	1	7	5	1	-	2	1	1
White	1	1	7	5	1	-	2	1	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	-	-	6	1	1	1	-	-	-
White	-	-	6	1	1	1	-	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	-	4	1	-	-	1	-	-
White	-	-	4	1	-	-	1	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	4	-	10	6	-	2	5	-	-
White	3	-	8	6	-	2	3	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	8.3	4.2	13.2	23.7	10.6	16.3	16.2	12.7	2.8
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 5

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Wadena	Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
Live Births	229	344	2,012	201	127	749	1,173	203
Fertility Rate	83.1	86.2	69.1	88.9	79.4	63.6	85.5	79.6
Birth Rate	16.1	18.5	17.5	16.8	14.8	16.3	19.7	15.0
Sex: Male	119	177	1,059	108	66	382	581	97
Female	110	167	953	93	61	367	592	106
Out-of-Wedlock, Percent	10.5	9.0	9.8	10.0	7.1	10.0	8.9	6.9
Race: White	227	342	1,964	198	127	737	1,085	198
Black	-	-	13	-	-	3	-	-
Indian	2	-	10	1	-	1	3	4
Live Birth Order								
Median	2.6	2.3	2.3	2.4	2.7	2.2	2.5	2.4
5th or over	8.3	3.5	2.1	2.0	7.1	3.5	5.1	4.9
Prematurity, Percent								
Less than 37 weeks	5.7	7.0	6.3	7.5	12.6	8.8	6.3	6.4
2,500 grams or less	7.4	5.5	4.9	6.5	5.5	4.5	5.1	1.5
Plurality:								
Single	227	334	1,966	199	127	729	1,153	203
Twin	2	10	46	2	-	20	20	-
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	3.1	3.2	2.4	2.5	1.6	2.4	2.1	4.4
18-19	11.4	7.0	5.6	8.0	7.9	7.9	7.6	6.9
40 and over	1.3	.3	.8	-	.8	.3	.9	1.0
Mother's Education, Percent								
Less than 12 years	12.2	9.3	7.7	11.9	11.8	11.6	8.1	9.4
Over 3 years college	9.2	9.9	17.2	12.4	7.9	17.9	9.1	10.3
Prenatal Care Began, Percent								
3rd Trimester or none	3.9	1.2	3.3	2.0	5.5	2.7	2.3	5.4
Prenatal Care Visits								
Median	10.5	10.2	10.8	10.6	11.3	11.2	10.6	10.0
Congenital Anomalies, Percent	.9	1.5	1.2	2.5	3.9	1.7	1.4	1.0
High Risk, Percent	21.8	16.3	18.3	14.4	20.5	16.2	16.6	13.8
Other Sign. Cond. of Child, †	4.8	3.8	4.8	5.0	6.3	3.5	4.2	3.9
Infant Deaths								
Total	3	4	23	3	3	12	11	2
White	3	4	23	3	3	12	11	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	1	2	15	-	3	6	9	1
White	1	2	15	-	3	6	9	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	1	10	-	-	3	6	-
White	-	1	10	-	-	3	6	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	1	2	-	3	-	2	1
White	-	1	2	-	3	-	2	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	1	-	3	-	-	3	1	-
White	1	-	3	-	-	3	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	1	3	10	1	-	4	5	-
White	1	3	9	1	-	4	4	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	8.7	14.5	12.4	5.0	23.6	13.4	11.9	4.9
Maternal Deaths	-	-	-	-	-	-	-	-

* As of the 1980 Census

**Includes unknown county of residence

† Refer to page 3 for explanation of term

Table 6
LIVE BIRTH WEIGHT BY LIVE BIRTH ORDER AND SEX
MINNESOTA RESIDENTS, 1981

Live Birth Order	Total Births	Weight in Grams									
		1,000 or Less	1,001 to 1,500	1,501 to 2,000	2,001 to 2,500	2,501 to 3,000	3,001 to 3,500	3,501 to 4,000	4,001 to 4,500	4,501 and Over	Weight Not Stated
First	27,778	138	147	316	1,132	3,880	10,380	8,808	2,465	455	57
Second	21,487	73	96	179	625	2,509	7,272	7,534	2,602	570	27
Third	10,712	43	34	98	317	1,235	3,429	3,725	1,455	358	18
Fourth	3,703	21	15	41	119	418	1,140	1,257	547	139	6
Fifth	1,292	5	10	9	45	170	386	433	185	49	-
Sixth	521	1	1	7	21	65	166	160	68	29	3
Seventh	243	-	2	5	7	25	77	70	37	18	2
Eight or Over	287	1	3	5	8	38	88	82	46	16	-
Not Stated	2,629	6	15	13	36	215	620	572	236	41	875
TOTAL	68,652	288	323	673	2,310	8,555	23,558	22,641	7,641	1,675	988
Male	35,450	159	163	337	1,056	3,707	11,000	12,443	4,855	1,213	517
Female	33,202	129	160	336	1,254	4,848	12,558	10,198	2,786	462	471

Table 7
LIVE BIRTHS BY AGE OF MOTHER AND LIVE BIRTH ORDER
MINNESOTA RESIDENTS, 1981

Live Birth Order	Age of Mother									
	Total Births	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 & Over Years	Age Not Stated
First	27,778	47	5,403	11,632	8,013	2,340	309	28	1	5
Second	21,487	1	948	7,221	8,804	3,951	525	35	1	1
Third	10,712	-	90	2,185	4,600	3,160	623	50	2	2
Fourth	3,703	-	7	394	1,417	1,372	458	51	3	1
Fifth	1,292	-	1	57	382	527	276	47	2	-
Sixth	521	-	-	7	99	217	150	45	3	-
Seventh	243	-	-	1	28	85	95	29	5	-
Eight or Over	287	-	-	2	12	72	103	83	15	-
Not Stated	2,629	-	173	794	1,006	511	120	24	1	-
TOTAL	68,652	48	6,622	22,293	24,361	12,235	2,659	392	33	9
Percent	100.0	0.1	9.6	32.4	35.4	17.8	3.8	.5	0.0	0.0

Table 8
PRENATAL CARE AND RACE BY AGE OF MOTHER AND BY LEGITIMACY STATUS
MINNESOTA RESIDENTS, 1981

	Total	Percent	Age of Mother					
			Under 15	15-19	20-29	30-39	40 and Over	Unknown
Legitimate Live Births	60,631*	-	1	3,361	42,552	14,312	396	9
Prenatal Care Started								
1st Trimester	45,223	74.6	-	1,984	32,133	10,888	211	7
2nd Trimester	9,157	15.1	1	942	6,096	1,998	119	1
3rd Trimester	1,169	1.9	-	146	744	252	27	-
No Care	384	0.6	-	20	225	130	9	-
Unknown	4,698	7.7	-	269	3,354	1,044	30	1
Race								
White	56,925	93.9	-	3,075	40,082	13,427	333	8
Black	748	1.2	-	34	544	165	5	-
Indian	524	0.9	-	56	347	115	5	1
Out-of-Wedlock Live Births	8,021*†	-	47	3,261	4,102	582	29	-
Prenatal Care Started								
1st Trimester	3,935	49.1	9	1,400	2,195	318	13	-
2nd Trimester	2,507	31.3	24	1,177	1,146	154	6	-
3rd Trimester	632	7.9	10	296	279	44	3	-
No Care	180	2.2	1	66	93	19	1	-
Unknown	767	9.6	3	322	389	47	6	-
Race								
White	6,277	78.3	27	2,636	3,179	415	20	-
Black	869	10.8	9	291	496	70	3	-
Indian	672	8.4	7	235	351	76	3	-
Legitimate Fetal Deaths	382*	-	-	22	252	97	6	5
Race								
White	334	87.4	-	18	222	85	6	3
Black	10	2.6	-	-	7	3	-	-
Indian	4	1.0	-	-	3	1	-	-
Out-of-Wedlock Fetal Deaths	78*†	-	-	27	45	4	-	2
Race								
White	46	59.0	-	18	25	3	-	-
Black	15	19.2	-	4	11	-	-	-
Indian	8	10.3	-	3	4	1	-	-

*Includes deliveries of other and unknown races
†Includes unknown legitimacy status

Infant Mortality & Fetal Deaths

Table 9
INFANT, NEONATAL AND POSTNEONATAL DEATHS BY CAUSE
MINNESOTA RESIDENTS, 1981

Causes of Death	Infant Deaths	Neonatal				Post-neonatal
		Total	Under 1 Day	1-6 Days	7-27 Days	
All Causes - Total	701	448	253	125	70	253
Certain conditions originating in the perinatal period	302	288	179	76	33	14
Respiratory distress syndrome	73	69	26	33	10	4
Short gestation and low birth weight	62	60	56	3	1	2
Selected respiratory conditions of fetus and newborn	46	41	27	10	4	5
Maternal conditions	35	35	31	3	1	-
Birth trauma	18	16	5	9	2	2
Fetal and neonatal hemorrhage	17	17	3	9	5	-
Intrauterine hypoxia and birth asphyxia	16	16	9	6	1	-
Congenital anomalies	171	127	65	40	22	44
Of heart	46	28	2	18	8	18
Of respiratory system	22	19	16	2	1	3
Anencephalus and similar anomalies	14	14	12	2	-	-
Of urinary system	13	12	10	1	1	1
Chromosomal anomalies	11	9	3	3	3	2
Symptoms, signs, and ill-defined conditions	137	11	4	1	6	126
Sudden infant death syndrome	133	8	1	1	6	125
Diseases of the respiratory system	25	3	1	-	2	22
Pneumonia-Influenza	12	2	1	-	1	10
Violent deaths	17	2	-	1	1	15
Accidental deaths	13	2	-	1	1	11
Motor vehicle	4	1	-	1	-	3
Mechanical suffocation	3	-	-	-	-	3
Homicide	3	-	-	-	-	3
Undetermined whether accident or homicide	1	-	-	-	-	1
Infective and parasitic diseases	13	5	1	3	1	8
Septicemia	4	3	1	1	1	1
Diseases of the circulatory system	9	1	-	1	-	8
Diseases of the nervous system and sense organs	7	2	-	1	1	5
Diseases of the digestive system	5	3	1	-	2	2
Endocrine, nutritional, and metabolic diseases	4	3	1	2	-	1
Neoplasms	4	-	-	-	-	4
Malignant neoplasms	2	-	-	-	-	2
Diseases of genitourinary system	3	1	-	-	1	2
Diseases of blood and blood forming organs	1	-	-	-	-	1
Diseases of musculoskeletal system and connective tissue	1	1	1	-	-	-
Diseases of the skin and subcutaneous tissue	1	1	-	-	1	-
Mental Disorders	1	-	-	-	-	1

Table 10
FETAL DEATHS OF 20 WEEKS AND OVER BY CAUSE AND WEIGHT OF FETUS
MINNESOTA RESIDENTS, 1981

Cause of Death	Total Fetal Deaths	Weight in Grams: 1,000 or Less	1,001 to 1,500	1,501 to 2,000	2,001 to 2,500	2,501 to 3,000	3,001 to 3,500	3,501 to 4,000	4,001 to 4,500	4,501 and Over	Weight Unknown
Total All Causes	461	126	44	35	36	49	35	14	9	1	112
Complications of Placenta, Cord, or Membranes	175	33	13	13	18	28	17	8	6	-	39
Congenital Anomalies	49	12	10	4	3	2	2	-	-	-	16
Anencephalus and Similar Anomalies	(13)	(3)	(4)	(1)	(1)	(-)	(-)	(-)	(-)	(-)	(4)
Hydrocephalus	(6)	(-)	(-)	(-)	(-)	(2)	(1)	(-)	(-)	(-)	(3)
Maternal Conditions Related to Pregnancy	27	15	3	-	1	2	-	-	-	-	6
Hypoxia and Birth Asphyxia	25	3	1	2	3	3	2	2	-	1	8
Maternal Conditions Unrelated to Pregnancy	19	6	3	4	1	1	-	1	-	-	3
Other Diseases or Conditions of Fetus	19	4	1	2	2	3	3	1	1	-	2
Short Gestation and Low Birthweight	16	13	-	-	-	-	-	-	-	-	3
Slow Fetal Growth and Fetal Malnutrition	10	4	1	-	1	-	-	-	-	-	4
Syndrome of "Infant of a Diabetic Mother"	3	-	2	-	-	1	-	-	-	-	-
Complications of Labor and Delivery	3	1	-	-	-	-	1	-	-	-	1
Malpresentation of Fetus	(1)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(1)
Hemolytic Disease of Fetus	2	-	-	-	-	1	-	-	-	-	1
Ill-defined Conditions Originating in Perinatal Period	113	35	10	10	7	8	10	2	2	-	29

General Mortality

Every day in 1981, residents of Minnesota experienced an average of:

Table 11

DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH

MINNESOTA, 1981

County	Deaths Occurring in County				Resident Deaths		
					Outside County		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	33,343	25,494	5,995	1,854	5,995	1,326	32,815
Aitkin	124	105	18	1	53	1	159
Anoka	776	482	270	24	255	14	751
Becker	268	222	36	10	28	48	298
Beltrami	219	179	38	2	24	25	228
Benton	127	95	31	1	118	-	213
Big Stone	94	69	16	9	14	3	86
Blue Earth	480	348	128	4	67	4	419
Brown	298	234	62	2	47	8	289
Carlton	245	190	53	2	65	5	260
Carver	215	127	86	2	104	-	231
Cass	118	96	17	5	116	14	226
Chippewa	112	87	23	2	42	1	130
Chisago	186	141	42	3	67	21	229
Clay	218	176	19	23	21	128	325
Clearwater	82	76	6	-	13	13	102
Cook	52	37	5	10	17	-	54
Cottonwood	143	128	15	-	28	9	165
Crow Wing	428	349	70	9	64	17	430
Dakota	568	450	107	11	407	24	881
Dodge	58	50	7	1	66	1	117
Douglas	270	230	39	1	31	16	277
Faribault	194	174	9	11	61	9	244
Fillmore	163	146	12	5	60	28	234
Freeborn	360	305	37	18	45	12	362
Goodhue	409	325	42	42	95	5	425
Grant	73	65	7	1	21	6	92
Hennepin	8,484	6,635	1,487	362	534	166	7,335
Minneapolis	4,537	2,885	1,450	202	1,090	69	4,044
Houston	118	98	11	9	10	68	176
Hubbard	183	136	46	1	18	22	176
Isanti	179	116	61	2	56	4	176
Itasca	396	325	61	10	63	8	396
Jackson	88	83	3	2	30	10	123
Kanabec	109	79	29	1	31	3	113
Kandiyohi	388	271	109	8	45	7	323
Kittson	76	67	8	1	9	10	86
Koochiching	124	109	10	5	28	5	142
Lac Qui Parle	115	105	7	3	32	3	140
Lake	105	89	15	1	22	-	111
Lake of the Woods	39	27	10	2	9	5	41
Le Sueur	119	98	19	2	114	2	214
Lincoln	99	59	21	19	8	12	79
Lyon	212	163	45	4	42	16	221
McLeod	272	211	58	3	48	3	262
Mannomen	39	33	6	-	20	7	60

Table 11
DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH, MINNESOTA, 1981 (CONT.)

County	Deaths Occurring in County				Resident Deaths		
					Outside County		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Marshall	70	62	8	-	51	24	137
Martin	238	202	17	19	31	12	245
Meeker	214	169	44	1	60	-	229
Mille Lacs	211	170	40	1	61	2	233
Morrison	227	200	21	6	57	1	258
Mower	309	289	16	4	94	19	402
Murray	72	65	5	2	15	13	93
Nicollet	121	90	30	1	83	3	176
Nobles	205	161	34	10	22	24	207
Norman	92	74	15	3	18	16	108
Olmsted	1,561	509	484	568	38	13	560
Otter Tail	515	445	48	22	69	52	566
Pennington	181	116	64	1	8	9	133
Pine	103	84	18	1	114	3	201
Pipestone	110	96	11	3	16	21	133
Polk	279	232	31	16	31	76	339
Pope	132	118	14	-	29	-	147
Ramsey	4,041	3,163	746	132	458	62	3,683
St. Paul	3,584	2,352	1,107	125	350	37	2,739
Red Lake	30	26	4	-	17	8	51
Redwood	157	119	38	-	89	2	210
Renville	160	146	14	-	95	1	242
Rice	376	310	61	5	51	4	365
Rock	95	82	10	3	13	12	107
Roseau	128	114	12	2	16	11	141
St. Louis	2,420	1,996	184	240	130	34	2,160
Duluth	1,451	953	268	230	90	12	1,055
Scott	263	156	104	3	77	4	237
Sherburne	134	94	38	2	125	5	224
Sibley	99	86	13	-	55	1	142
Stearns	855	529	306	20	123	6	658
Steele	236	203	31	2	48	4	255
Stevens	108	91	16	1	22	2	115
Swift	98	94	4	-	36	-	130
Todd	142	117	23	2	94	6	217
Traverse	59	40	4	15	17	5	62
Wabasha	200	142	34	24	57	2	201
Wadena	167	106	59	2	31	13	150
Waseca	101	94	7	-	56	4	154
Washington	373	300	63	10	241	21	562
Watonwan	114	93	20	1	26	2	121
Wilkin	122	50	5	67	12	17	79
Winona	352	307	23	22	46	39	392
Wright	281	237	38	6	169	6	412
Yellow Medicine	167	127	37	3	41	4	172
Unknown	-	-	-	-	5	-	5

Table 12
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1981

9th Revision No.	Cause of Death and Sex		Total	Under 1 year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total		32,815*	701*	127	66	87	298	404	330	302	314	353	586	1,026	1,616	2,249	3,196	3,778	4,528	4,875	7,970
	Male		17,891*	416	90	39	59	200	331	244	212	198	219	388	692	1,066	1,489	2,024	2,310	2,490	2,334	3,085
	Female		14,922*	283	37	27	28	98	73	86	90	116	134	198	334	550	760	1,174	1,468	2,038	2,541	4,885
000-139	I. INFECTIOUS AND PARASITIC DISEASES	T	262	13	9	2	2	2	1	5	2	3	5	3	8	9	19	21	31	33	31	63
		M	134	3	6	1	2	1	-	4	1	-	4	2	6	7	9	14	16	18	15	25
		F	128	10	3	1	-	1	1	1	1	3	1	1	2	2	10	7	15	15	16	38
001-009	Intestinal Infectious Diseases	T	15	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	6	4
		M	5	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	1
		F	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	3
004	Shigellosis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010-018, 137	Tuberculosis (including late effects of)	T	10	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	2	1	4
		M	4	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	2
		F	6	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	2
010-012	Respiratory Tuberculosis Active	T	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	1	4
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2
		F	6	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	2
013-018, 137	Other Tuberculosis Active	T	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
		M	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
137	Late Effects of Tuberculosis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032	Diphtheria	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
033	Whooping Cough	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
034	Streptococcal Sore Throat, Scarlatina, and Erysipelas	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	Meningococcal Infection	T	4	1	1	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-
		M	2	1	1	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
037	Tetanus	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
038	Septicemia	T	134	4	1	-	-	1	-	-	-	2	2	3	4	11	10	16	18	15	44
		M	65	1	1	-	-	-	-	-	-	1	1	2	3	6	7	9	8	9	16
		F	69	3	-	-	-	1	-	-	-	1	1	1	1	5	3	7	10	6	28
045	Acute Poliomyelitis	T	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
		M	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
055	Measles	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
062-064	Viral Encephalitis Acute	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
070	Viral Hepatitis	T	11	-	-	1	-	-	-	-	-	-	1	1	1	-	3	1	2	-	-	-
		M	8	-	-	1	-	-	-	-	-	-	1	1	1	-	2	1	1	-	-	-
		F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
090-097	Syphilis	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Re-sid-ual	Other Infectious and Parasitic Diseases	T	80	4	4	-	1	-	-	4	1	2	1	-	3	4	3	9	13	10	9	10
		M	44	1	2	-	1	-	-	3	1	2	1	-	2	3	3	6	6	7	4	6
		F	36	3	2	-	-	-	-	1	-	-	-	-	1	1	0	3	7	3	5	4
140-239	II. NEOPLASMS	T	7,014*	4	16	14	6	16	30	40	46	78	98	166	311	567	757	984	1,045	1,081	850	899
		M	3,766*	0	9	6	4	9	14	19	17	37	54	98	211	311	423	514	506	504	424	413
		F	3,308	2	8	8	2	7	16	21	29	41	44	68	100	256	334	470	539	577	426	486
140-208	Malignant Neoplasms	T	6,971*	2	15	13	6	15	27	36	44	74	93	159	304	549	751	979	1,033	1,056	838	873
		M	3,734*	1	8	5	3	8	12	17	17	34	54	93	208	422	588	592	588	416	403
		F	3,237	1	7	8	3	7	15	9	27	40	39	66	96	216	329	431	445	440	422	470
140-149	Of Lip, Oral Cavity and Pharynx	T	103	-	-	-	-	-	-	-	-	-	2	8	4	12	15	17	14	7	13	
		M	78	-	-	-	-	-	-	-	-	-	1	5	3	12	10	11	12	6	6	
		F	25	-	-	-	-	-	-	-	-	-	1	3	1	2	5	6	2	1	7	
150-159	Of Digestive Organs and Peritoneum	T	2,000	-	-	-	-	-	3	5	9	17	29	56	85	94	201	239	194	325	271	332
		M	1,071	-	-	-	-	-	3	5	8	14	20	38	60	46	124	144	175	171	116	145
		F	929	-	-	-	-	-	-	-	1	3	9	18	25	48	77	95	119	154	155	187
150	Of Esophagus	T	111	-	-	-	-	-	-	-	-	1	1	3	4	6	10	16	15	12	8	15
		M	88	-	-	-	-	-	-	-	-	-	1	2	4	4	7	13	12	10	4	10
		F	23	-	-	-	-	-	-	-	-	1	-	1	-	2	3	3	3	2	4	5
151	Of Stomach	T	270	-	-	-	-	-	-	1	-	3	-	7	4	13	24	31	45	41	30	69
		M	163	-	-	-	-	-	-	1	-	2	-	4	4	7	14	14	32	27	17	36
		F	107	-	-	-	-	-	-	-	-	1	-	3	4	6	10	17	13	14	13	33
152	Of Small Intestine, Including Duodenum	T	17	-	-	-	-	-	-	-	-	-	-	2	3	2	1	2	3	3	1	
		M	8	-	-	-	-	-	-	-	-	-	-	1	2	2	1	2	1	1	-	
		F	9	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	2	1	

Table 12
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1981 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
153	Of Colon	T	746	-	-	-	-	-	1	3	4	2	11	11	31	65	86	93	118	128	111	134
		M	387	-	-	-	-	-	-	3	2	2	4	7	20	31	44	52	62	61	46	53
		F	411	-	-	-	-	-	1	-	2	-	7	4	11	34	42	41	56	67	65	81
154	Of Rectum, Rectosigmoid Junction and Anus	T	146	-	-	-	-	-	-	1	-	-	1	2	8	19	18	15	19	23	15	24
		M	100	-	-	-	-	-	-	1	-	-	1	1	7	14	16	13	14	16	7	10
		F	46	-	-	-	-	-	-	-	-	-	-	1	1	5	2	2	5	7	8	14
160-165	Of Respiratory System	T	1,543	-	-	-	-	-	-	-	1	11	22	48	118	170	220	278	276	208	116	73
		M	1,130	-	-	-	-	-	-	-	-	7	14	33	89	126	162	205	213	153	81	47
		F	413	-	-	-	-	-	-	-	1	4	8	15	29	44	58	73	63	55	35	32
162	Of Trachea, Bronchus and Lung	T	1,454	-	-	-	-	-	-	-	1	10	22	46	108	161	209	266	252	199	108	72
		M	1,059	-	-	-	-	-	-	-	-	7	14	32	81	118	153	195	195	146	76	42
		F	395	-	-	-	-	-	-	-	1	3	8	14	27	43	56	71	57	53	32	30
170-173	Of Bone, Connective Tissue, Skin and Breast	T	790	-	-	1	3	3	-	6	12	27	29	36	52	86	83	104	94	96	74	80
173		M	47	-	-	1	1	2	-	5	2	9	5	4	5	6	10	11	12	10	7	7
		F	691	-	-	-	2	1	-	1	10	18	23	32	47	80	73	93	82	86	67	73
172-173	Of Skin	T	90	-	-	-	-	-	-	6	4	3	4	3	7	9	8	13	11	10	5	7
173		M	61	-	-	-	-	-	-	5	2	1	4	2	5	4	5	7	5	7	2	2
		F	29	-	-	-	-	-	-	1	2	2	-	1	2	5	3	6	6	3	3	5
174-175	Of Breast	T	634	-	-	-	-	-	-	-	8	17	23	31	42	75	70	86	81	78	57	66
175		M	7	-	-	-	-	-	-	-	-	1	-	-	-	-	2	1	1	-	-	2
		F	627	-	-	-	-	-	-	-	8	16	23	31	42	75	68	85	80	78	57	64
179-189	Of Genitourinary Organs	T	1,161	-	1	2	1	2	4	4	9	7	10	15	30	58	99	154	165	218	182	198
		M	654	-	1	1	1	-	4	2	2	2	2	5	6	21	46	76	92	139	120	138
		F	507	-	-	1	-	2	-	2	7	5	8	10	24	37	53	78	73	79	62	60
179-181	Of Uterus, Cervix and Placenta	T	181	-	-	-	-	-	-	-	1	4	2	4	3	4	11	16	23	23	15	17	19
179		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	181	-	-	-	-	-	-	-	1	4	2	4	3	4	11	16	23	23	15	17	19
185	Of Prostate	T	465	-	-	-	-	-	-	-	-	-	-	1	-	1	13	27	50	67	95	80	119
		M	465	-	-	-	-	-	-	-	-	-	-	1	-	1	13	27	50	67	95	80	119
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
140-208	Of Other and Unspecified Sites	T	567	-	1	1	1	4	3	4	7	6	2	18	36	48	57	87	78	67	76	80
199		M	294	-	1	-	1	1	2	2	4	5	2	11	23	27	31	48	34	40	34	24
		F	273	-	-	1	-	-	1	2	3	1	-	7	13	21	26	39	44	27	42	56
191-192	Of Brain and Other Parts of Central Nervous System	T	140	-	3	4	1	2	1	3	4	6	-	9	15	16	10	23	20	14	22	3
		M	84	-	2	-	1	1	1	3	3	4	-	7	11	9	10	11	7	9	10	-
		F	56	-	1	4	-	1	-	-	1	1	-	2	4	8	0	12	13	10	12	3
200-208	Lymphatic and Hematopoietic Tissue	T	783	2	6	5	3	9	10	9	10	16	10	14	40	43	73	102	94	130	112	91
200		M	396	1	3	3	1	4	7	5	4	10	6	10	22	21	47	53	54	82	52	36
		F	387	1	3	2	-	5	3	4	6	6	4	4	18	22	26	49	40	48	60	55
201	Hodgkin's Disease	T	48	-	-	-	-	2	2	2	2	2	2	2	4	3	3	5	3	4	5	3
		M	28	-	-	-	-	2	2	2	1	2	2	2	-	2	2	4	3	4	3	1
		F	21	-	-	-	-	-	-	-	1	-	-	-	4	1	1	1	-	1	2	2
204-208	Leukemia	T	386	2	5	4	2	6	4	4	3	6	3	4	12	14	23	41	36	43	39	35
208		M	234	1	3	3	1	3	3	-	1	1	2	3	6	9	11	28	22	28	19	14
		F	152	1	2	1	1	3	1	4	2	5	1	1	4	5	12	13	14	15	20	21
210-239	Benign Neoplasms and Neoplasms of Uncertain Behavior	T	193	2	1	1	-	-	-	2	1	-	1	-	4	2	8	10	12	23	12	26
210		M	41	1	1	1	-	-	-	-	-	-	-	-	1	2	3	6	6	6	6	10
		F	61	1	-	-	-	-	-	2	1	-	1	-	3	-	5	4	6	17	4	16
240-279	III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	T	454	4	5	-	1	2	5	8	3	8	4	10	17	27	25	70	75	113	96	172
279		M	270	3	4	-	1	1	2	4	3	5	1	10	10	13	10	21	35	41	41	68
		F	184	1	1	-	-	1	3	4	0	3	3	-	7	14	15	49	40	72	55	104
250	Diabetes Mellitus	T	476	-	-	-	-	-	3	3	5	7	4	15	15	18	21	63	61	86	74	101
		M	200	-	-	-	-	-	1	2	2	5	1	8	6	4	4	21	30	35	31	39
		F	276	-	-	-	-	-	2	1	3	2	3	7	9	14	17	42	31	51	43	62
260-269	Nutritional Deficiencies	T	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	11	6	37
		M	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	16
		F	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	9	4	21
Residual	(240-249, 251-254, 270-279)	T	114	4	5	-	1	2	2	5	3	1	-	5	2	9	4	5	11	16	16	34
		M	56	1	4	-	1	1	1	2	1	-	-	4	2	4	2	-	5	4	8	13
		F	58	3	1	-	-	1	1	3	2	1	-	1	-	5	2	5	6	12	8	21
280-289	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	T	100	1	-	-	-	-	1	3	-	-	1	-	2	2	7	15	7	16	10	35
		M	56	1	-	-	-	-	1	1	-	-	1	-	1	1	5	9	5	10	5	16
		F	44	-	-	-	-	-	-	2	-	-	-	-	1	1	2	6	2	6	5	19
280-285	Anemias	T	53	1	-	-	-	-	-	-	-	-	-	-	-	-	3	5	3	9	8	24
		M	17	1	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	7	4	9
		F	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	4	15
Residual	(286-289)	T	47	-	-	-	-	-	1	3	-	-	1	-	2	2	4	10	4	7	2	11
		M	29	-	-	-	-	-	1	1	-	-	-	-	1	1	4	6	3	3	1	7
		F	18	-	-	-	-	-	-	2	-	-	1	-	1	1	-	4	1	4	1	4
290-319	V. MENTAL DISORDERS	T	287	1	-	2	-	-	1	1	3	3	4	5	6	8	10	24	16	44	52	126
		M	131	-	-	2	-	-	1	1	2	1	2	4	5	6	10	16	9	13	21	35
		F	156	1	-	-	-	-	-	-	1	2	2	1	1	2	-	8	7	31	31	91
320-389	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	T	444	7	14	4	4	14	5	11	5	4	8	8	24	14	35	49	50	57	59	71
389		M	239	5	10	3	4	11	5	6	2	3	5	4	13	5	22	30	24	30	28	30
		F	205	2	4	1	-	3	-	5	3	1	3	4	11	9	13	19	26	27	31	41
320-322	Meningitis Excludes Infective Meningitis	T	20	5	4	-	-	-	-	-	-	-	-	2	-	-	-	3	-	2	-	4
		M	10	3	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2
		F	10	2	2	-	-	-	-	-	-	-	-	1	-	-	-	3	-	2	-	2
332	Parkinson's Disease	T	103	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4	23	16	27	10
		M	45	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	10	7	12	13
		F	58	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	13	9	15	17

Table 12
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1981

9th Revision No.	Cause of Death and Sex		Total	Under 1 year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
140	Multiple Sclerosis	T	31	-	-	-	-	-	-	-	1	2	2	2	3	3	6	4	4	3	1	-
		M	13	-	-	-	-	-	-	-	-	1	-	1	3	-	4	1	1	-	-	-
		F	18	-	-	-	-	-	-	-	1	1	2	1	-	3	2	3	3	3	1	-
Re-sidual	(323-331, 333-339, 341-389)	T	290	2	10	4	4	14	5	11	4	2	6	4	21	10	26	18	24	36	31	37
		M	171	2	8	3	4	11	5	6	2	-	5	2	10	5	16	24	13	23	16	15
		F	119	-	2	1	-	3	-	5	2	2	1	2	11	5	10	14	11	13	15	22
390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	T	16,464	4	7	5	5	4	18	15	47	71	106	216	372	703	1,036	1,521	1,922	2,439	2,932	5,026
		M	8,723	7	4	2	2	4	12	6	35	43	79	163	285	541	770	1,049	1,202	1,331	1,360	1,828
		F	7,731	2	3	3	3	-	6	9	12	28	27	53	87	162	266	472	720	1,108	1,572	3,198
390-398, 402, 404-429	Diseases of the Heart	T	12,115	6	3	3	5	3	13	7	34	56	88	184	334	599	895	1,272	1,494	1,809	2,064	3,246
		M	6,835	4	2	1	2	3	9	4	30	41	68	147	267	474	682	893	964	998	993	1,257
		F	5,280	2	1	2	3	-	4	3	4	15	20	37	67	125	213	379	530	815	1,071	1,989
390-398	Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	T	117	-	-	-	-	-	-	1	1	1	3	6	4	6	15	15	23	16	16	10
		M	43	-	-	-	-	-	-	1	1	1	-	-	1	3	7	9	10	6	2	2
		F	74	-	-	-	-	-	-	-	-	-	3	6	3	3	8	6	13	10	14	8
402, 404	Hypertensive Heart with or without Renal Disease	T	204	-	-	-	-	-	-	-	1	-	1	-	3	3	15	22	21	30	34	70
		M	100	-	-	-	-	-	-	-	1	-	-	-	6	1	13	19	16	9	17	18
		F	104	-	-	-	-	-	-	-	-	-	1	-	1	2	2	3	5	21	17	52
410-414	Ischemic Heart Disease	T	9,227	-	-	-	1	-	-	1	26	41	65	138	263	489	730	1,024	1,203	1,381	1,559	2,306
		M	5,403	-	-	-	-	-	-	1	25	32	56	117	211	399	566	725	790	783	769	919
		F	3,824	-	-	-	1	-	-	-	1	9	7	21	46	90	162	299	413	598	790	1,387
410	Acute Myocardial Infarction	T	4,439	-	-	-	-	-	-	-	19	23	42	96	177	309	466	640	719	763	772	811
		M	1,933	-	-	-	-	-	-	-	18	17	38	81	146	257	361	456	469	432	397	359
		F	2,506	-	-	-	-	-	-	-	1	6	4	15	29	52	105	184	250	331	375	452
411	Other Acute and Subacute Forms	T	36	-	-	-	-	-	-	-	-	-	-	-	-	4	3	3	3	7	4	12
		M	23	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	2	5	2	5
		F	13	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	2	7
412	Old Myocardial Infarction	T	38	-	-	-	-	-	-	-	-	-	-	-	-	2	3	4	3	2	3	1
		M	12	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	3	2	1	-
		F	6	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	2	1
413	Angina Pectoris	T	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3	3
		M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1
414	Chronic Ischemic Heart Disease	T	4,324	-	-	-	-	-	-	1	7	11	23	42	86	174	266	375	477	609	777	1,479
		M	2,374	-	-	-	-	-	-	1	7	15	20	36	69	138	201	262	316	344	367	553
		F	1,950	-	-	-	-	-	-	-	-	2	3	6	17	36	65	113	161	265	410	926
415-416	Pulmonary Heart Disease	T	195	1	-	-	1	-	1	1	-	2	1	4	11	9	22	29	14	31	25	30
		M	91	1	-	-	1	-	1	1	-	2	1	3	8	5	12	14	11	16	8	13
		F	104	-	-	-	-	-	-	-	-	-	-	1	3	4	10	15	3	15	17	17
420-429	Other Forms of Heart Disease	T	2,169	5	1	3	3	1	12	4	6	11	18	36	47	92	112	181	223	351	429	830
		M	1,192	3	1	2	1	1	9	2	3	6	9	27	35	66	81	125	136	180	197	305
		F	1,177	2	1	1	2	-	3	2	3	5	9	9	12	26	31	56	87	171	232	525
401, 403	Hypertensive Disease without Mention of Heart Disease	T	127	-	-	-	-	-	-	-	-	-	-	1	1	2	7	7	13	21	35	40
		M	64	-	-	-	-	-	-	-	-	-	-	-	-	1	4	2	7	13	19	17
		F	63	-	-	-	-	-	-	-	-	-	-	1	1	1	3	5	6	8	16	23
430-438	Cerebrovascular Disease	T	3,131	1	1	1	-	1	4	1	11	10	13	24	28	69	103	169	330	472	630	1,262
		M	1,261	1	1	1	-	1	2	1	5	4	7	9	14	39	61	94	152	238	247	364
		F	1,870	-	-	-	-	-	2	1	6	6	6	15	14	30	42	75	148	234	383	898
431	Cerebral Hemorrhage	T	644	2	1	-	-	-	1	3	4	4	3	8	9	17	30	26	15	42	55	64
		M	135	2	-	-	-	-	-	2	3	-	1	3	5	9	20	12	16	24	20	18
		F	159	-	1	-	-	-	1	1	1	4	2	5	4	8	10	14	19	18	35	36
434	Occlusion of Cerebral Arteries	T	527	1	-	-	-	1	-	1	1	1	-	-	1	10	11	28	52	90	119	211
		M	208	1	-	-	-	1	-	-	-	-	-	-	-	6	7	16	27	45	48	57
		F	319	-	-	-	-	-	-	1	1	1	-	-	1	4	4	12	25	45	71	154
440-448	Diseases of the Arteries, Arterioles and Capillaries	T	1,090	-	-	-	-	1	-	1	3	4	5	5	7	27	37	65	104	119	192	442
		M	611	-	-	-	-	1	-	-	2	3	4	4	4	21	30	54	72	77	97	166
		F	479	-	-	-	-	-	-	1	1	1	1	1	3	6	7	11	32	42	95	276
440	Arteriosclerosis	T	607	-	-	-	-	-	-	-	-	2	3	1	3	11	6	24	28	58	120	356
		M	271	-	-	-	-	-	-	-	-	2	1	1	1	6	2	19	18	32	59	129
		F	336	-	-	-	-	-	-	-	-	-	2	-	2	5	4	5	10	26	61	227
451-459	Diseases of Veins and Lymphatics and Other Diseases of Circulatory System	T	81	-	1	-	-	-	-	-	1	1	-	2	2	6	4	8	11	18	11	16
		M	42	-	1	-	-	-	-	-	1	1	-	2	-	6	3	6	7	9	4	4
		F	39	-	-	-	-	-	-	-	-	-	-	-	2	-	1	2	4	9	7	12
451	Phlebitis and Thrombophlebitis	T	30	-	-	-	-	-	-	-	-	-	-	1	1	2	2	5	5	7	5	1
		M	17	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	3	3	2	-
		F	13	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	2	4	3	1
460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	T	2,352	25	5	6	4	5	7	3	4	5	10	16	26	73	109	200	265	360	414	814
		M	1,356	16	3	3	4	1	2	1	2	2	5	12	15	46	70	131	136	231	244	368
		F	996	9	2	3	-	4	5	2	2	3	5	4	11	27	39	69	129	129	170	446
466	Acute Bronchitis and Bronchiolitis	T	12	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	2	2	4
		M	6	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	1	1
		F	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3
480-487	Pneumonia and Influenza	T	1,126	12	3	4	-	1	4	2	1	4	3	6	8	24	28	41	71	134	220	566
		M	534	7	1	1	-	-	2	1	1	2	3	5	4	17	12	21	44	76	114	221
		F	592	5	2	3	-	1	2	1	-	2	-	1	4	7	8	20	27	58	106	345
480-486	Pneumonia	T	1,097	11	3	4	-	1	3	2	2	3	4	5	8	23	18	40	66	124	210	529
		M	507	7	1	3	-	-	1	1	1	2	3	5	4	16	11	20	40	73	110	211
		F	550	4	2	1	-	1	2	1	1	1	1	-	4	7	7	20	26	51	100	318
487	Influenza	T	69	1	-	-	-	-	1	-	-	-	-	-	-	-	1	2	1	5	10	10	37
		M	27	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	4	5	4	10
		F	42	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	5	6	27

Table 12
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1981

8th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
490-491	Bronchitis, chronic and unspecified	T	58	-	-	-	-	-	-	-	-	-	-	-	-	2	1	11	5	8	11	20
		M	37	-	-	-	-	-	-	-	-	-	-	-	-	2	1	7	4	6	5	12
		F	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	2	6	8
492	Emphysema	T	175	-	-	-	-	-	-	-	-	-	2	-	5	7	17	29	40	30	20	25
		M	125	-	-	-	-	-	-	-	-	-	1	-	2	3	12	22	31	22	16	16
		F	50	-	-	-	-	-	-	-	-	-	1	-	3	4	5	7	9	8	4	9
493	Asthma	T	62	-	-	1	2	-	1	-	1	-	2	2	2	4	6	6	5	8	10	13
		M	32	-	-	-	2	-	-	-	1	-	1	1	2	2	4	3	3	4	3	6
		F	30	-	-	1	-	-	1	-	-	-	1	1	-	2	2	3	2		7	7
Rem. 512-519	(460-465, 467, 470, 490-519)	T	919	12	2	2	2	2	2	1	2	2	2	8	10	36	65	113	143	179	151	186
		M	622	8	2	-	2	1	1	1	1	1	1	6	6	24	41	78	114	121	105	112
		F	297	4	-	2	-	1	1	1	1	1	1	2	4	12	24	35	29	58	46	74
520-579	IX. DISEASES OF THE DIGESTIVE SYSTEM	T	1,163	5	1	-	-	1	3	3	8	22	23	35	74	69	99	137	108	146	128	278
		M	617	3	1	-	-	1	2	1	5	11	16	23	51	50	62	67	66	70	52	97
		F	546	2	-	-	-	-	1	2	3	11	7	12	23	19	37	50	42	76	76	181
531-533	Ulcer of the stomach and duodenum	T	125	-	1	-	-	-	1	-	-	1	-	-	5	7	6	15	9	25	20	35
		M	63	-	1	-	-	-	1	-	-	-	-	-	3	5	2	9	7	13	10	12
		F	62	-	-	-	-	-	-	-	-	1	-	-	2	2	4	6	2	12	10	23
540-543	Appendicitis	T	11	-	-	-	1	1	1	-	-	1	-	-	1	1	-	-	1	2	-	2
		M	7	-	-	-	-	1	1	-	-	1	-	-	1	1	-	-	-	1	-	1
		F	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1
550-553, 560	Hernia and intestinal obstruction	T	96	2	-	-	-	-	1	-	-	-	-	1	1	-	4	3	12	12	18	42
		M	36	1	-	-	-	-	-	-	-	-	-	1	-	-	1	2	6	5	7	13
		F	60	1	-	-	-	-	1	-	-	-	-	-	1	-	3	1	6	7	11	29
571	Chronic liver disease and cirrhosis	T	374	-	-	-	-	-	-	2	1	10	15	24	55	48	57	58	40	30	15	17
		M	237	-	-	-	-	-	-	-	1	5	12	16	38	33	40	38	25	17	5	6
		F	137	-	-	-	-	-	-	2	1	5	3	8	17	15	17	20	15	13	10	11
574-576	Cholelithiasis and other disorders of gallbladder and biliary tract	T	34	-	-	-	-	-	-	-	-	-	2	2	1	2	3	5	4	12	6	40
		M	14	-	-	-	-	-	-	-	-	-	1	2	1	2	1	4	3	9	2	21
		F	20	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	3	4	19
Rem. 513-520	(521-524, 550-553, 560-579)	T	173	3	-	-	-	-	-	-	-	1	5	10	6	8	11	11	29	56	62	67	69	141
		M	100	2	-	-	-	-	-	-	-	1	3	5	3	4	6	9	18	34	45	25	28	43
		F	73	1	-	-	-	-	-	-	-	-	2	5	3	4	5	2	11	22	17	42	41	98
580-629	X. DISEASES OF THE GENITOURINARY SYSTEM	T	364	3	2	-	-	-	-	2	2	1	2	1	-	6	6	20	27	63	77	145
		M	200	3	1	-	-	-	-	1	-	1	1	-	1	4	4	10	12	39	42	74
		F	164	-	1	-	-	-	-	1	2	-	1	1	4	2	2	10	15	24	35	67
580-589	Nephritis, Nephrotic Syndrome and Nephrosis	T	213	3	1	-	-	-	-	1	1	-	1	1	2	5	3	14	17	42	42	81
		M	123	2	1	-	-	-	-	1	-	-	-	1	1	3	1	6	8	28	22	39
		F	100	1	-	-	-	-	-	-	1	-	1	-	1	2	2	8	9	14	20	42
590	Infections of the kidney	T	22	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	4	6	5	7
		M	15	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	1	2	3	3
		F	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	2	4
600	Hyperplasia of the Prostate	T	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	1	10
		M	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	1	10
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rem. 513-629	(521-524, 550-553, 560-579, 600)	T	104	-	-	-	-	-	-	-	-	-	1	1	-	2	-	3	5	6	12	29	47
		M	62	-	-	-	-	-	-	-	-	-	1	1	-	2	-	3	3	3	6	16	26
		F	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	6	13	21
630-676	XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	T	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
630-639	Pregnancy with Abortive Outcome	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
640-648	Complications of Pregnancy	T	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Rem. 513-629	(649-676)	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
680-709	XII. DISEASE OF THE SKIN AND SUBCUTANEOUS TISSUE	T	26	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	5	11
		M	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	5
		F	17	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	4	8
710-739	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	T	116	1	-	-	-	-	-	-	1	-	-	3	5	4	13	13	21	15	19	21
		M	56	-	-	-	-	-	-	-	-	-	-	2	2	-	7	4	5	5	4	5
		F	60	1	-	-	-	-	-	-	1	-	-	1	3	4	6	9	16	10	15	16
740-759	XIV. CONGENITAL ANOMALIES	T	214*	171*	16	1	2	5	5	4	1	1	1	4	5	3	1	-	2	3	2	-
		M	143*	106	11	2	4	2	3	2	1	1	1	3	2	2	1	-	2	-	-	-
		F	89	63	5	1	3	4	2	2	-	-	-	1	3	1	-	-	-	3	2	-
760-779	XV. CERTAIN CONDITION ORIGINATING IN THE PERINATAL PERIOD	T	304	302	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	181	179	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	123	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780-799	XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS	T	665*	137	5	1	1	2	8	5	1	2	8	3	6	17	16	56	71	64	95	148
		M	380*	80	4	-	1	1	3	5	1	2	5	2	4	13	11	42	47	36	44	59
		F	285	57	1	1	-	1	5	-	-	-	3	1	2	4	5	14	24	28	51	89
E800-E999	XVII. ACCIDENTS, POISONINGS, AND VIOLENCE	T	2,309*	17	45	29	54	244	332	241	176	118	86	103	101	93	96	80	114	111	105	159
		M	1,643*	8	33	20	36	172	285	193	143	92	61	77	83	63	66	56	72	71	53	56
		F	662*	9	12	9	18	72	47	48	33	27	25	26	18	30	30	24	42	40	52	101

BEST AVAILABLE COPY

Table 12
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1981

9th Revision No.	Cause of Death and Sex		Total	Under 1 year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
E800-E949	Accidents--Total	T	1,724*	13	42	28	50	193	250	157	99	81	50	66	70	62	74	55	91	100	97	148
		M	1,199*	6	31	20	34	131	221	133	65	63	36	52	55	38	52	36	50	61	45	49
		F	525*	7	11	8	16	62	29	24	14	18	14	14	15	24	22	19	41	39	47	100
E810-E825	Motor vehicle Accidents	T	677*	4	15	11	29	148	184	110	63	53	24	32	31	37	27	21	25	26	25	11
		M	529*	-	10	9	18	91	161	93	53	42	17	24	22	21	15	11	14	12	11	4
		F	148	4	5	2	11	57	23	17	10	11	7	8	9	16	12	10	11	14	14	7
Re-sid-ual	Other Accidents (800-809, 826-949)	T	847*	9	27	17	21	45	66	47	36	28	26	34	39	25	47	34	66	74	67	138
		M	670*	6	21	11	16	40	60	40	32	21	19	28	33	17	37	25	36	49	34	45
		F	177*	3	6	6	5	5	6	7	4	7	7	6	6	8	10	9	30	25	33	93
E950-E959	Suicide and self-inflicted injury	T	449	-	-	-	1	43	59	62	63	27	26	31	23	25	20	22	21	10	9	7
		M	361	-	-	-	1	35	48	45	47	19	19	21	21	20	13	17	21	9	8	7
		F	88	-	-	-	-	8	11	17	16	8	7	10	2	5	7	5	-	1	1	-
E960-E969	Homicide and Injury Purposely Inflicted by Other Persons	T	68	3	3	1	3	6	14	16	10	7	9	4	7	3	2	2	1	-	4	1
		M	66	3	2	-	3	4	10	12	8	7	5	3	6	2	1	2	-	1	4	1
		F	37	2	1	1	-	2	4	6	2	-	4	1	1	1	1	-	-	1	-	-
E970-E978	Legal Intervention	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E980-E989	Injury Undetermined whether Accidentally or Purposely Inflicted	T	36	1	-	-	-	2	9	4	4	4	1	2	1	3	-	1	1	1	-	2
		M	29	1	-	-	-	2	6	3	4	3	1	2	1	3	-	1	1	1	-	2
		F	7	-	-	-	-	-	3	1	-	1	-	-	-	-	-	-	-	-	-	-
E990-E999	Injury Resulting from Operations of War	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Includes sex unknown

† Includes age unknown

‡ For further detail on perinatal mortality see page 37

Table 13
DEATHS DUE TO SELECTED CAUSES BY RACE
MINNESOTA RESIDENTS, 1981

	Total	White	Black	Indian	Other	Unknown
All Causes - Total	32,815	32,238	321	180	59	17
Infective - parasitic	262	251	3	3	5	-
Tuberculosis	10	10	-	-	-	-
Neoplasms - malignant	6,971	6,865	71	24	11	-
Digestive	2,000	1,970	16	8	6	-
Respiratory	1,547	1,515	22	8	2	-
Breast	634	624	8	1	1	-
Genital	859	847	11	1	-	-
Urinary	302	297	3	2	-	-
Leukemia	286	284	2	-	-	-
Diabetes mellitus	476	468	4	4	-	-
Major cardiovascular	16,373	16,179	118	54	11	11
Rheumatic	117	116	-	1	-	-
Hypertensive heart	204	201	3	-	-	-
Ischemic heart	9,227	9,114	68	29	6	10
Other heart	2,369	2,335	18	13	3	-
Hypertension	127	126	1	-	-	-
Cerebrovascular	3,131	3,106	14	8	2	1
Arteriosclerosis	607	601	4	2	-	-
Respiratory	2,352	2,329	13	8	2	-
Pneumonia	1,057	1,047	7	2	1	-
Influenza	69	68	-	1	-	-
Bronchitis	58	57	1	-	-	-
Emphysema	175	174	1	-	-	-
Asthma	62	62	-	-	-	-
Ulcer of stomach & duodenum	125	125	-	-	-	-
Hernia & intestinal obstruction	96	96	-	-	-	-
Chronic liver disease & cirrhosis	374	354	6	13	1	-
Nephritis, nephrotic syndrome & nephrosis	213	212	1	-	-	-
Kidney infections	27	26	1	-	-	-
Pregnancy, childbirth & puerperium	2	2	-	-	-	-
Congenital anomalies	234	211	15	3	5	-
Certain conditions originating in the perinatal period	304	277	19	2	5	1
Ill-defined	665	636	14	8	5	2
Other diseases	2,034	1,991	22	18	3	-
Accidents	1,724	1,667	16	34	5	2
Motor vehicle	877	851	4	17	4	1
Accidental falls	282	277	2	3	-	-
Suicide	449	438	2	4	5	-
Homicide	98	81	13	3	1	-
Other violent deaths	36	30	3	2	-	1

Table 14
FIFTEEN LEADING CAUSES OF DEATH, DEATH RATES PER 100,000 POPULATION AND PERCENT OF TOTAL DEATHS, MINNESOTA RESIDENTS, 1981

Cause of Death	Number of Deaths	Death Rates	Percent of Total
Heart Disease (390-398, 402, 404-429)	12,115	295.6	36.9
Cancer (Malignant neoplasms) (140-208)	6,971	170.1	21.2
Cerebrovascular Disease (430-438)	3,131	76.4	9.5
Accidental Deaths (800-949)	1,724	42.1	5.3
Motor vehicle (810-825)	(877)	(21.4)	(2.7)
Accidental falls (880-888)	(282)	(6.9)	(0.9)
Pneumonia and Influenza (480-487)	1,126	27.5	3.4
Pneumonia (480-486)	(1,057)	(25.8)	(3.2)
Influenza (487)	(69)	(1.7)	(0.2)
Arteriosclerosis (440)	607	14.8	1.8
Diabetes Mellitus (250)	476	11.6	1.5
Suicide (950-959)	449	11.0	1.4
Chronic Liver Disease and Cirrhosis (571)	374	9.1	1.1
Certain Conditions Originating in the Perinatal Period (760-779)	304	7.4	0.9
Chronic Bronchitis, Emphysema & Asthma (490-493)	295	7.2	0.9
Congenital anomalies (740-759)	234	5.7	0.7
Nephritis, Nephrotic syndrome, and Nephrosis (580-589)	213	5.2	0.6
Septicemia (038)	134	3.3	0.4
Hypertensive Disease Without Mention of Heart Disease (401, 403)	127	3.1	0.4
All other causes	4,535	110.6	13.8
Total - all causes	32,815	800.6	100.0

Table 15
LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS
MINNESOTA RESIDENTS, 1981

	No. of Deaths	Per-cent
1-4 Years		
Total, all causes	127	100.0
Accidental deaths	42	33.1
Motor vehicle	(15)	(11.8)
Congenital anomalies	16	12.6
Malignant neoplasms	15	11.8
Diseases of the nervous system and sense organs	14	11.0
Infectious and parasitic diseases	9	7.1
5-9 Years		
Total, all causes	66	100.0
Accidental deaths	28	42.4
Motor vehicle	(11)	(16.7)
Malignant neoplasms	13	19.7
Diseases of the respiratory system	6	9.1
Diseases of the nervous system and sense organs	4	6.1
Diseases of the heart	3	4.5
Congenital anomalies	3	4.5
10-14 Years		
Total, all causes	87	100.0
Accidental deaths	50	57.5
Motor vehicle	(29)	(33.3)
Malignant neoplasms	8	9.2
Congenital anomalies	7	8.0
Diseases of the heart	5	5.7
Diseases of the nervous system and sense organs	4	4.6
Diseases of the respiratory system	4	4.6
15-19 Years		
Total, all causes	298	100.0
Accidental deaths	193	64.8
Motor vehicle	(148)	(49.7)
Suicide	43	14.4
Malignant neoplasms	18	6.0
Diseases of the nervous system and sense organs	14	4.7
Homicide	6	2.0
Congenital anomalies	6	2.0
20-34 Years		
Total, all causes	1,036	100.0
Accidental deaths	506	48.8
Motor vehicle	(357)	(34.5)
Suicide	184	17.8
Malignant neoplasms	95	9.2
Diseases of the heart	54	5.2
Homicide	42	4.1
Cerebrovascular disease	22	2.1
35-49 Years		
Total, all causes	1,253	100.0
Malignant neoplasms	336	26.8
Diseases of the heart	328	26.2
Accidental deaths	197	15.7
Motor vehicle	(109)	(8.7)
Suicide	84	6.7
Chronic liver disease and cirrhosis	49	3.9
Cerebrovascular disease	48	3.8
50-64 Years		
Total, all causes	4,891	100.0
Diseases of the heart	1,828	37.4
Malignant neoplasms	1,705	34.9
Accidental deaths	206	4.2
Motor vehicle	(95)	(1.9)
Cerebrovascular disease	200	4.1
Chronic liver disease and cirrhosis	160	3.3
Disease of the nervous system and sense organs	73	1.5
Diabetes	54	1.1
65-74 Years		
Total, all causes	6,976	100.0
Diseases of the heart	2,766	39.7
Malignant neoplasms	2,012	28.8
Cerebrovascular disease	469	6.7
Accidental deaths	146	2.1
Motor vehicle	(46)	(0.7)
Ill-defined conditions	127	1.8
Diabetes	124	1.8
Pneumonia and influenza	112	1.6
75 Years and Over		
Total, all causes	17,373	100.0
Heart disease	7,119	41.0
Malignant neoplasms	2,769	15.9
Cerebrovascular disease	2,384	13.7
Pneumonia and influenza	920	5.3
Arteriosclerosis	534	3.1
Accidental deaths	341	2.0
Motor vehicle	(62)	(0.4)
Ill-defined conditions	307	1.8

Table 16
DEATHS OCCURRING IN MINNESOTA BY CAUSE AND AUTOPSY STATUS
1981

Cause of Death	Total Deaths	Autopsy Status					
		Number			Percent		
		Performed	Not Performed	Not Stated	Performed	Not Performed	Not Stated
All Causes - Total	33,343	5,892	23,394	4,087	17.6	70.2	12.3
I. Infectious and parasitic diseases	281	97	153	31	34.5	54.4	11.0
II. Neoplasms	7,228	908	5,367	953	12.6	74.3	13.2
III. Endocrine, nutritional, and metabolic diseases	676	102	481	93	15.1	71.2	13.8
IV. Diseases of the blood and blood-forming organs	109	27	68	14	24.8	62.4	12.8
V. Mental disorders	289	30	220	39	10.4	76.1	13.5
VI. Diseases of the nervous system and sense organs	454	85	318	51	18.7	70.0	11.2
VII. Diseases of the circulatory system	16,642	2,244	12,211	2,187	13.5	73.4	13.1
VIII. Diseases of the respiratory system	2,375	355	1,716	304	14.9	72.3	12.8
IX. Diseases of the digestive system	1,228	409	689	130	33.3	56.1	10.6
X. Diseases of the genitourinary system	384	52	281	51	13.5	73.2	13.3
XI. Complications of pregnancy, childbirth, and the puerperium	2	1	1	-	50.0	50.0	0.0
XII. Diseases of the skin and subcutaneous tissue	30	5	23	2	16.7	76.7	6.7
XIII. Diseases of the musculoskeletal system and connective tissue	130	28	90	12	21.5	69.2	9.2
XIV. Congenital anomalies	298	202	82	14	67.8	27.5	4.7
XV. Certain conditions originating in the perinatal period	295	134	140	21	45.4	47.5	7.1
XVI. Symptoms and ill-defined conditions	665	160	447	58	24.1	67.2	8.7
XVII. Accidents, poisoning, and violence	2,257	1,023	1,107	127	45.3	49.0	5.6

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1981

		State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	Brown	Carlton	Carver
DEATHS - Total		32,815+	159	751	298	228	213	86	419	289	260	231
Rate:	Age & sex adjusted	8.0	7.7	7.3	8.2	7.5	8.9	7.5	8.4	8.2	8.0	7.5
Rate:	Sex adjusted-age specific											
	Under 5 years	2.6	4.2	2.3	4.4	3.3	2.7	5.5	3.4	1.9	2.6	3.0
	5-14 years	0.2	0.0	0.2	0.0	0.4	0.0	0.0	0.5	0.5	0.0	0.2
	15-24 years	0.9	1.9	0.8	0.4	1.0	0.8	5.5	0.5	1.3	1.1	0.3
	25-44 years	1.1	1.0	1.0	1.5	1.2	1.1	0.6	1.2	0.9	1.1	0.9
	45-64 years	7.4	7.7	6.7	9.0	8.5	7.2	5.5	8.1	6.9	8.0	4.1
	65 years and over	50.1	45.4	45.7	48.5	42.8	58.3	41.1	51.7	52.3	49.1	52.3
Sex:	Male	17,891	89	463	180	142	121	60	221	155	142	139
	Female	14,922	70	288	118	86	92	26	198	134	118	92
Race:	White	32,238	158	749	285	208	213	86	419	289	257	231
	Black	321	1	-	-	1	-	-	-	-	-	-
	Indian	180	-	2	12	19	-	-	-	-	3	-
	Other & Unknown	76	-	-	1	-	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH											
001-139	Infective-parasitic	262	-	9	3	2	1	-	2	1	2	2
010-018	Tuberculosis	10	-	1	-	-	1	-	-	-	-	-
140-208	Neoplasms-malignant	6,971	37	178	54	50	41	13	92	60	51	52
150-159	Digestive	2,000	10	44	11	14	13	4	31	20	15	13
160-165	Respiratory	1,547	6	44	11	17	8	2	22	15	8	8
174-175	Breast	634	2	8	4	1	3	1	9	4	6	6
179-187	Genital	859	4	17	8	7	5	-	13	8	7	3
188-189	Urinary	302	4	10	1	2	1	2	5	-	1	5
204-208	Leukemia	286	-	7	2	1	2	-	5	6	1	4
250	Diabetes mellitus	476	2	13	2	1	1	2	5	6	6	5
390-448	Major cardiovascular	16,373	90	321	166	113	112	43	231	166	136	111
390-398	Rheumatic heart	117	1	1	1	1	-	1	2	-	-	-
402,404	Hypertensive heart	204	-	3	4	-	1	1	3	2	4	1
410-414	Ischemic heart	9,227	61	202	104	61	73	18	144	97	66	65
420-429	Other heart	2,369	8	38	20	16	7	9	21	21	19	17
400-401, & 403	Hypertension	127	-	3	-	1	1	1	1	3	1	2
430-438	Cerebrovascular	3,131	16	47	33	27	19	12	44	30	33	20
440	Arteriosclerosis	607	2	15	2	4	8	-	11	8	9	3
460-519	Respiratory	2,352	9	45	25	17	19	11	18	18	14	12
480-486	Pneumonia	1,057	3	21	12	5	7	6	7	10	6	6
487	Influenza	69	1	-	-	1	-	-	-	2	-	2
490-491	Bronchitis	53	-	2	1	-	-	-	-	-	-	1
492	Emphysema	175	-	5	1	1	1	2	2	-	1	-
493	Asthma	62	-	-	1	1	1	-	-	1	1	-
531-533	Ulcer of stomach and duodenum	125	1	3	-	1	-	-	2	1	3	1
550-553, & 560	Hernia & intestinal obstruction	96	-	-	1	2	-	1	3	-	5	-
571	Chronic liver disease and cirrhosis	374	1	10	3	1	2	-	4	3	4	2
580-589	Nephritis, nephrotic syndrome & nephrosis	213	1	2	-	2	-	1	-	4	1	4
590	Kidney infection	27	-	1	-	1	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	2	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	234	-	13	3	1	3	-	7	-	1	2
760-779	Infant mortality	304	3	15	4	2	-	-	6	3	2	6
780-799	Ill-defined	665	1	13	3	4	3	2	2	1	6	2
Residual	Other diseases	2,034	6	38	19	10	14	6	20	11	13	16
E800-949	Accidents	1,724	4	68	14	17	13	7	23	11	12	12
E810-825	Motor vehicle	877	3	40	8	8	8	4	11	5	7	8
E880-888	Accidental falls	282	-	10	2	-	1	1	1	-	2	2
E950-959	Suicide	449	2	22	-	2	4	-	2	2	3	3
E960-978	Homicide & legal intervention	98	2	-	1	1	-	-	2	1	1	1
E980-999	Other violent deaths	36	-	-	-	1	-	-	-	1	-	-

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

		Cass	Chippewa	Chisago	Clay	Clear-water	Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas
Deaths - Total		226	130	229	325	102	54	165	430	881	117	277
Rate: Age & sex adjusted		7.2	6.4	8.6	7.4	8.5	10.1	8.1	8.3	7.2	7.4	7.6
Rate: Sex adjusted-age specific												
	Under 5 years	1.3	2.5	1.7	3.4	0.0	13.8	0.9	5.6	1.9	0.7	2.2
	5-14 years	0.3	1.4	0.2	0.5	0.0	0.0	0.0	0.3	0.3	0.0	0.2
	15-24 years	0.3	0.4	2.2	0.5	0.6	0.0	1.4	1.5	0.8	0.8	1.7
	25-44 years	1.3	1.1	1.2	1.2	3.4	0.8	1.8	1.8	0.9	0.2	0.6
	45-64 years	8.3	7.4	7.2	6.7	8.9	13.8	6.8	7.9	6.6	7.2	7.2
	65 years and over	43.4	35.8	53.9	46.1	48.8	53.4	50.9	47.2	45.7	48.9	47.2
Sex: Male		125	71	129	195	57	43	92	247	487	73	168
Female		101	59	100	130	44	11	73	183	394	44	109
Race: White		216	130	228	323	99	50	165	429	874	117	276
Black		-	-	-	1	-	-	-	-	4	-	1
Indian		10	-	-	-	3	4	-	1	1	-	-
Other & Unknown		-	-	1	1	-	-	-	-	2	-	-
ICDA**	CAUSE OF DEATH											
001-139	Infective-parasitic	8	1	4	2	1	-	-	2	5	-	2
010-018	Tuberculosis	-	-	-	-	-	-	-	1	-	-	-
140-208	Neoplasms-malignant	54	28	47	78	21	10	35	96	235	29	46
150-159	Digestive	13	8	11	23	3	3	8	21	60	5	20
160-165	Respiratory	17	5	14	16	4	2	7	25	61	11	5
174-175	Breast	1	3	5	6	1	-	5	10	29	1	5
179-187	Genital	7	3	10	8	3	2	5	14	25	4	9
188-189	Urinary	3	2	1	4	1	-	1	3	4	2	-
204-208	Leukemia	1	1	1	6	2	-	3	6	12	1	2
250	Diabetes mellitus	2	-	4	2	4	1	4	4	8	2	5
390-448	Major cardiovascular	106	66	120	152	56	21	90	202	391	53	146
390-398	Rheumatic heart	-	1	1	-	-	-	-	2	7	-	-
402,404	Hypertensive heart	-	-	1	1	-	1	2	4	3	1	1
410-414	Ischemic heart	58	37	53	83	33	10	62	110	235	25	91
420-429	Other heart	21	5	19	22	7	6	13	32	60	15	16
400-401, & 403	Hypertension	3	2	-	1	-	-	-	2	4	-	1
430-438	Cerebrovascular	18	17	33	31	14	1	9	38	58	11	25
440	Arteriosclerosis	1	2	9	7	2	-	2	4	7	-	8
460-519	Respiratory	21	11	13	33	6	1	19	33	52	9	25
480-486	Pneumonia	9	3	6	14	2	1	12	18	17	4	16
487	Influenza	-	-	-	3	-	-	3	-	1	-	-
490-491	Bronchitis	-	-	1	-	-	-	-	-	-	-	-
492	Emphysema	3	2	2	5	1	-	-	-	3	-	1
493	Asthma	-	2	-	1	1	-	-	-	1	-	3
531-533	Ulcer of stomach and duodenum	-	-	-	1	-	-	1	3	4	-	1
550-553, & 560	Hernia & intestinal obstruction	2	-	-	-	-	-	-	2	-	-	-
571	Chronic liver disease and cirrhosis	2	1	4	4	-	2	1	6	13	3	5
580-589	Nephritis, nephrotic syndrome & nephrosis	1	-	1	1	2	-	-	2	6	2	1
590	Kidney infection	-	-	-	-	-	-	-	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	-	1	2	1	2	1	2	9	2	3
760-779	Infant mortality	-	2	2	8	-	2	-	7	9	-	3
780-799	Ill-defined	3	1	1	3	-	4	1	9	8	3	1
Residual	Other diseases	12	13	7	21	4	6	5	23	51	6	18
E800-949	Accidents	11	6	20	13	4	4	7	27	69	6	18
E810-825	Motor vehicle	7	6	13	4	4	-	3	15	45	1	10
E880-888	Accidental falls	-	-	1	2	-	1	1	3	2	1	1
E950-959	Suicide	2	1	4	3	2	1	1	10	16	2	3
E960-978	Homicide & legal intervention	-	-	1	2	-	-	-	1	4	-	-
E980-999	Other violent deaths	-	-	-	-	1	-	-	1	-	-	-

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

		Fari-bault	Fill-more	Free-born	Good-hue	Grant	Henn-epin	Minn-eapolis	Houston	Hubbard	Isanti
DEATHS - Total		244	234	362	425	92	7,335	4,044	176	176	176
Rate:	Age & sex adjusted	8.9	7.5	8.3	8.8	7.6	8.4	9.5	7.9	9.3	7.6
Rate:	Sex adjusted-age specific										
	Under 5 years	1.3	4.9	1.5	2.6	0.0	2.6	3.4	4.5	4.6	2.9
	5-14 years	0.0	0.3	0.2	0.2	0.0	0.2	0.4	0.0	0.9	0.2
	15-24 years	1.5	1.1	1.0	0.7	1.9	0.8	0.7	0.9	1.3	1.1
	25-44 years	1.1	1.6	1.3	1.9	1.3	1.2	1.5	0.7	1.2	0.7
	45-64 years	11.1	5.4	8.4	7.4	4.6	7.7	10.6	6.8	10.4	6.2
	65 years and over	52.1	46.3	50.9	55.3	51.1	52.5	56.3	50.6	53.6	48.9
Sex:	Male	131	134	202	223	43	3,705	1,969	93	106	116
	Female	113	100	160	202	49	3,629	2,075	83	70	60
Race:	White	244	233	362	421	92	7,043	3,776	176	176	174
	Black	-	1	-	1	-	203	193	-	-	1
	Indian	-	-	-	3	-	60	54	-	-	-
	Other & Unknown	-	-	-	-	-	29	21	-	-	1
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	-	3	1	2	-	65	37	-	1	2
010-018	Tuberculosis	-	-	-	-	-	2	1	-	-	-
140-208	Neoplasms-malignant	50	41	93	80	26	1,595	819	38	40	39
150-159	Digestive	15	14	20	22	6	465	242	11	12	8
160-165	Respiratory	10	6	24	15	6	400	214	8	5	12
174-175	Breast	3	3	9	1	4	140	70	5	3	2
179-187	Genital	8	7	11	6	3	178	87	4	6	4
188-189	Urinary	1	-	5	4	-	70	42	2	2	3
204-208	Leukemia	3	2	6	3	2	59	26	1	-	-
250	Diabetes mellitus	2	2	6	11	-	117	50	5	1	1
390-448	Major cardiovascular	150	128	187	232	44	3,411	1,888	90	88	79
390-398	Rheumatic heart	-	1	-	2	-	28	15	1	-	1
402,404	Hypertensive heart	2	1	3	3	1	33	13	1	1	-
410-414	Ischemic heart	88	80	102	112	26	2,028	1,117	52	46	47
420-429	Other heart	13	11	44	25	4	415	245	8	18	9
400-401, & 403	Hypertension	1	1	-	1	-	33	26	1	-	-
430-438	Cerebrovascular	42	29	36	69	10	626	329	24	18	17
440	Arteriosclerosis	2	3	2	11	1	130	71	2	1	2
460-519	Respiratory	10	21	21	30	6	514	332	14	16	14
480-486	Pneumonia	3	12	7	17	6	214	148	8	7	11
487	Influenza	-	-	1	1	-	5	4	-	1	-
490-491	Bronchitis	-	1	-	1	-	17	12	-	-	-
492	Emphysema	4	1	2	1	-	44	24	-	1	2
493	Asthma	-	-	2	4	-	10	6	-	1	-
531-533	Ulcer of stomach and duodenum	2	1	1	3	-	28	17	-	1	1
550-553, & 560	Hernia & intestinal obstruction	-	2	-	2	-	17	12	3	-	-
571	Chronic liver disease and cirrhosis	1	2	3	5	-	115	62	-	2	-
580-589	Nephritis, nephrotic syndrome & nephrosis	2	1	2	6	3	45	26	-	1	4
590	Kidney infection	-	-	1	1	-	6	4	-	-	-
630-676	Pregnancy, childbirth & puerperium	1	-	-	-	-	1	1	-	-	-
740-759	Congenital anomalies	-	1	1	1	-	54	25	-	-	1
760-779	Infant mortality	1	2	1	4	-	52	33	5	4	2
780-799	Ill-defined	1	1	8	5	-	246	163	2	-	4
Residual	Other diseases	11	12	23	31	10	495	278	7	9	13
E800-949	Accidents	11	15	10	22	2	379	182	11	8	11
E810-825	Motor vehicle	6	9	8	14	1	154	60	5	4	5
E880-888	Accidental falls	-	-	1	4	-	120	71	4	2	1
E950-959	Suicide	2	1	4	10	-	134	70	1	5	4
E960-978	Homicide & legal intervention	-	1	-	-	1	46	33	-	-	1
E980-999	Other violent deaths	-	-	-	-	-	15	12	-	-	-

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

		Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching	Lac Qui Parle	Lake	Lake of the Woods	Le Sueur
DEATHS - Total		396	123	113	323	86	142	140	111	41	214
Rate:	Age & sex adjusted	8.2	6.9	7.8	7.3	8.8	7.8	9.1	8.3	8.3	7.9
Rate:	Sex adjusted-age specific										
	Under 5 years	1.5	0.0	0.9	2.2	0.0	0.7	1.3	2.8	7.0	4.3
	5-14 years	0.4	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0	0.0
	15-24 years	1.5	0.8	0.9	1.2	3.2	1.3	1.8	0.4	0.0	1.1
	25-44 years	1.5	1.6	0.7	0.9	0.0	1.1	1.3	0.5	4.0	1.5
	45-64 years	7.6	4.6	6.8	6.3	5.8	7.0	11.5	6.2	8.5	7.9
	65 years and over	50.4	45.8	51.6	45.7	59.9	49.3	52.6	56.6	42.5	46.3
Sex:	Male	224	75	69	188	41	70	77	59	29	121
	Female	172	48	44	135	45	72	63	52	12	93
Race:	White	385	123	112	322	86	139	139	111	41	212
	Black	1	-	-	-	-	-	-	-	-	1
	Indian	9	-	1	-	-	1	1	-	-	1
	Other & Unknown	1	-	-	1	-	2	-	-	-	-
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	3	1	1	2	-	1	1	3	-	1
010-018	Tuberculosis	-	-	-	1	-	-	-	-	-	-
140-208	Neoplasms-malignant	90	24	22	41	13	26	28	26	7	48
150-159	Digestive	33	10	5	11	6	6	10	7	3	13
160-165	Respiratory	16	4	3	15	2	7	6	6	1	7
174-175	Breast	13	1	2	1	-	2	6	3	1	7
179-187	Genital	14	2	4	5	1	5	1	3	1	7
188-189	Urinary	3	-	1	3	1	2	1	1	1	2
204-208	Leukemia	2	1	1	1	-	1	1	1	-	4
250	Diabetes mellitus	11	1	-	3	3	2	1	1	2	5
390-448	Major cardiovascular	201	65	68	176	44	80	87	56	19	102
390-398	Rheumatic heart	4	1	-	-	-	1	1	1	-	1
402,404	Hypertensive heart	2	-	-	2	-	3	3	-	1	2
410-414	Ischemic heart	105	35	42	102	25	53	42	27	13	60
420-429	Other heart	34	10	9	33	10	9	15	7	3	19
400-401, & 403	Hypertension	1	1	-	1	-	-	2	-	-	-
430-438	Cerebrovascular	36	10	12	24	9	12	18	14	-	18
440	Arteriosclerosis	10	6	2	7	-	-	6	4	-	-
460-519	Respiratory	27	14	8	30	11	8	5	9	4	16
480-486	Pneumonia	15	6	3	18	9	4	3	6	-	9
487	Influenza	-	-	-	-	-	-	-	-	-	1
490-491	Bronchitis	1	-	-	-	-	-	-	1	-	-
492	Emphysema	2	3	-	1	1	-	1	1	-	1
493	Asthma	1	-	-	1	1	-	-	-	1	-
531-533	Ulcer of stomach and duodenum	-	-	-	-	-	1	-	-	-	2
550-553, & 560	Hernia & intestinal obstruction	-	1	1	-	1	1	-	-	-	-
571	Chronic liver disease and cirrhosis	4	1	3	5	1	2	2	2	1	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	-	3	3	-	-	-	1	2
590	Kidney infection	-	-	-	1	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	-	-	2	-	2	-	1	-	1
760-779	Infant mortality	-	-	1	4	-	-	-	1	-	5
780-799	Ill-defined	7	1	-	8	-	1	1	1	1	2
Residual	Other diseases	21	6	4	24	5	8	4	8	2	12
E800-949	Accidents	19	6	3	20	3	9	11	2	2	13
E810-825	Motor vehicle	12	4	3	10	-	6	4	-	-	6
E880-888	Accidental falls	1	-	-	2	2	-	3	-	1	2
E950-959	Suicide	8	3	2	2	2	-	-	1	1	2
E960-978	Homicide & legal intervention	1	-	-	2	-	-	-	-	1	1
E980-999	Other violent deaths	-	-	-	-	-	1	-	-	-	-

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Lincoln	Lyon	McLeod	Mahnomen	Marshall	Martin	Meeker	Mille Lacs	Morrison	Mower
DEATHS - Total	79	221	262	60	137	245	229	233	258	402
Rate: Age & sex adjusted	6.6	7.9	7.8	8.4	8.6	7.6	8.5	9.7	7.8	7.8
Rate: Sex adjusted-age specific										
Under 5 years	1.7	3.3	2.9	2.0	1.7	2.7	2.3	4.9	4.5	1.8
5-14 years	0.0	0.3	0.4	0.0	0.5	0.6	0.6	0.7	0.8	0.2
15-24 years	0.7	0.5	2.6	1.1	0.9	1.5	1.1	1.0	1.1	0.6
25-44 years	1.1	1.1	1.2	3.4	2.6	1.6	1.4	1.4	1.5	1.9
45-64 years	7.0	7.7	6.7	6.3	8.3	5.1	7.6	9.8	7.0	9.2
65 years and over	40.2	49.0	46.2	50.4	50.3	47.5	52.7	58.5	45.5	44.7
Sex: Male	41	114	153	36	85	126	138	142	140	229
Female	38	107	109	24	52	119	91	91	118	173
Race: White	79	221	262	50	137	243	229	224	258	402
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	10	-	1	-	8	-	-
Other & Unknown	-	-	-	-	-	1	-	1	-	-
ICDA** CAUSE OF DEATH										
001-139 Infective-parasitic	1	1	3	-	-	1	-	1	2	1
010-018 Tuberculosis	-	-	-	-	-	1	-	-	-	-
140-208 Neoplasms-malignant	14	46	40	14	30	47	40	47	43	79
150-159 Digestive	4	13	10	5	13	16	12	16	13	17
160-165 Respiratory	2	4	7	4	6	11	6	10	4	21
174-175 Breast	1	5	6	1	-	4	3	2	4	9
179-187 Genital	4	7	9	1	5	6	6	5	9	11
188-189 Urinary	-	2	3	-	1	2	3	2	2	3
204-208 Leukemia	-	3	-	2	2	4	1	3	1	2
250 Diabetes mellitus	-	6	6	1	2	4	2	2	4	5
390-448 Major cardiovascular	42	117	143	34	75	135	127	116	141	227
390-398 Rheumatic heart	-	-	-	-	-	-	1	-	-	2
402,404 Hypertensive heart	-	2	1	-	2	-	1	-	1	2
410-414 Ischemic heart	21	66	87	12	31	83	68	64	67	103
420-429 Other heart	4	15	11	10	17	9	16	7	34	68
400-401, & 403 Hypertension	-	-	-	-	-	-	2	3	-	1
430-438 Cerebrovascular	14	25	37	10	19	37	31	25	28	39
440 Arteriosclerosis	-	5	5	1	2	3	7	8	6	4
460-519 Respiratory	11	14	14	4	8	14	17	15	12	25
480-486 Pneumonia	8	4	10	1	3	9	5	7	7	7
487 Influenza	-	-	1	1	-	-	-	-	-	-
490-491 Bronchitis	-	1	-	-	1	-	1	-	-	1
492 Emphysema	1	5	-	1	2	1	-	1	-	-
493 Asthma	1	-	-	-	-	-	2	1	-	-
531-533 Ulcer of stomach and duodenum	1	1	1	-	-	2	1	5	-	1
550-553, & 560 Hernia & intestinal obstruction	-	-	-	-	-	1	1	3	1	2
571 Chronic liver disease and cirrhosis	-	1	2	-	1	1	2	1	5	-
580-589 Nephritis, nephrotic syndrome & nephrosis	1	-	3	-	1	2	2	3	1	2
590 Kidney infection	-	-	-	-	1	-	-	-	-	1
630-676 Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759 Congenital anomalies	-	1	1	-	-	6	2	3	5	2
760-779 Infant mortality	1	4	2	-	-	-	-	-	3	2
780-799 Ill-defined	-	1	5	1	2	-	4	3	1	7
Residual Other diseases	5	14	18	-	8	11	11	17	20	28
E800-949 Accidents	2	11	16	5	8	15	17	13	20	15
E810-825 Motor vehicle	-	6	12	2	4	9	6	6	7	9
E880-888 Accidental falls	1	2	-	1	-	1	4	1	3	1
E950-959 Suicide	-	3	8	1	1	1	3	4	-	5
E960-978 Homicide & legal intervention	-	-	-	-	-	-	-	-	-	-
E980-999 Other violent deaths	1	1	-	-	-	-	-	-	-	-

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

		Murray	Nicollet	Nobles	Norman	Olmsted	Otter tail	Penn-ington	Pine	Pipe-stone	Polk
DEATHS - Total		93	176	207	108	560	566	133	201	133	339
Rate:	Age & sex adjusted	6.3	7.1	7.3	7.0	7.3	7.3	7.8	8.1	7.8	7.8
Rate:	Sex adjusted-age specific										
	Under 5 years	1.1	5.0	2.4	2.9	1.9	2.3	3.2	2.9	0.0	2.9
	5-14 years	0.0	0.3	0.0	0.0	0.1	0.3	0.0	1.3	0.0	0.4
	15-24 years	1.0	0.9	0.5	0.0	0.6	0.5	0.4	0.8	1.4	0.9
	25-44 years	1.9	0.9	0.8	1.0	0.8	1.0	1.5	1.0	0.8	0.7
	45-64 years	7.7	5.8	7.2	6.5	6.9	7.0	6.1	8.1	6.7	7.1
	65 years and over	34.8	43.6	46.5	44.7	46.8	45.9	49.8	49.0	51.1	49.7
Sex:	Male	54	109	111	74	266	354	69	122	75	186
	Female	39	67	96	34	294	212	64	79	58	153
Race:	White	93	176	207	108	557	563	133	196	133	339
	Black	-	-	-	-	1	2	-	-	-	-
	Indian	-	-	-	-	-	-	-	5	-	-
	Other & Unknown	-	-	-	-	2	1	-	-	-	-
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	-	-	2	1	6	5	1	-	2	4
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	24	35	43	27	124	121	26	29	28	65
150-159	Digestive	5	7	10	11	34	38	10	4	6	22
160-165	Respiratory	2	7	6	6	28	25	3	6	7	11
174-175	Breast	5	1	4	1	19	11	1	4	-	6
179-187	Genital	4	7	8	1	12	15	3	4	4	11
188-189	Urinary	1	2	3	1	1	10	2	4	1	3
204-208	Leukemia	2	1	3	-	8	2	1	1	2	3
250	Diabetes mellitus	2	4	2	3	8	7	2	2	2	5
390-448	Major cardiovascular	52	86	109	66	251	305	70	117	76	194
390-398	Rheumatic heart	-	1	1	2	4	1	-	2	-	1
402,404	Hypertensive heart	-	-	-	-	4	3	-	2	1	2
410-414	Ischemic heart	34	53	60	47	138	174	33	62	37	102
420-429	Other heart	5	10	18	1	40	40	11	20	14	33
400-401, & 403	Hypertension	-	-	-	-	1	-	-	1	-	3
430-438	Cerebrovascular	11	21	21	16	40	52	19	23	20	30
440	Arteriosclerosis	1	1	-	-	8	17	4	4	3	15
460-519	Respiratory	2	15	12	5	54	46	15	17	9	[illegible]
480-486	Pneumonia	1	4	5	1	16	25	9	7	3	3
487	Influenza	-	4	-	1	-	5	-	3	-	2
490-491	Bronchitis	-	-	1	-	3	-	-	1	-	-
492	Emphysema	-	-	2	1	2	2	1	2	1	2
493	Asthma	1	2	-	1	7	3	-	-	1	-
531-533	Ulcer of stomach and duodenum	-	1	1	-	1	3	-	2	-	-
550-553, & 560	Hernia & intestinal obstruction	-	1	1	-	-	1	1	-	-	-
571	Chronic liver disease and cirrhosis	-	1	1	1	8	3	-	3	-	3
580-589	Nephritis, nephrotic syndrome & nephrosis	1	1	5	1	1	6	-	-	2	3
590	Kidney infection	-	-	-	-	-	1	-	2	-	1
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	1	1	-	4	4	-	-	-	-
760-779	Infant mortality	-	8	3	-	5	3	-	1	-	5
780-799	Ill-defined	1	2	-	1	15	2	3	5	5	5
Residual	Other diseases	3	12	20	2	48	36	8	10	2	19
E800-949	Accidents	6	7	5	1	28	22	7	11	5	18
E810-825	Motor vehicle	5	3	1	1	11	11	3	3	3	7
E880-888	Accidental falls	-	-	1	-	4	1	1	2	2	1
E950-959	Suicide	1	1	2	-	7	1	-	2	2	2
E960-978	Homicide & legal intervention	-	1	-	-	-	-	-	-	-	-
E980-999	Other violent deaths	-	-	-	-	-	-	-	-	-	-

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

	Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville	Rice	Rock	Roseau	St. Louis
DEATHS - Total	147	3,683	2,739	51	210	242	365	107	141	2,160
Rate: Age & sex adjusted	8.1	8.3	8.8	7.9	7.8	8.7	8.2	7.6	8.8	8.8
Rate: Sex adjusted-age specific										
Under 5 years	1.1	2.6	3.4	2.0	2.0	1.8	1.9	1.1	2.7	3.2
5-14 years	0.0	0.2	0.2	0.0	0.3	0.3	0.0	0.0	2.3	0.1
15-24 years	0.6	0.7	0.6	2.9	1.2	1.2	0.9	0.0	1.3	1.2
25-44 years	1.2	1.0	1.2	1.6	0.9	1.1	1.1	1.1	1.5	1.2
45-64 years	4.4	7.6	9.4	10.3	6.0	6.9	7.0	5.3	7.9	9.6
65 years and over	57.4	52.6	53.5	41.5	51.0	56.4	52.8	52.4	51.7	52.0
Sex: Male	71	1,844	1,334	26	119	136	197	66	95	1,199
Female	76	1,839	1,405	25	91	106	168	41	46	961
Race: White	147	3,558	2,622	51	207	242	363	107	141	2,142
Black	-	98	94	-	-	-	-	-	-	3
Indian	-	8	7	-	3	-	1	-	-	11
Other & Unknown	-	19	16	-	-	-	1	-	-	4
ICDA** CAUSE OF DEATH										
001-139 Infective-parasitic	1	29	22	1	2	1	2	1	-	16
010-018 Tuberculosis	-	3	3	-	-	-	-	-	-	-
140-208 Neoplasms-malignant	27	866	642	10	37	42	78	31	35	442
150-159 Digestive	10	238	170	1	14	11	24	10	11	134
160-165 Respiratory	4	205	161	2	7	6	13	11	8	91
174-175 Breast	3	86	64	1	2	4	4	2	2	52
179-187 Genital	2	102	71	2	2	7	14	3	4	46
188-189 Urinary	1	34	28	-	4	1	3	-	2	15
204-208 Leukemia	3	22	16	2	1	2	3	2	2	15
250 Diabetes mellitus	5	46	28	2	1	2	7	1	2	34
390-448 Major cardiovascular	70	1,755	1,294	24	110	148	182	49	60	1,103
390-398 Rheumatic heart	1	18	15	1	1	1	1	-	-	6
402,404 Hypertensive heart	-	21	19	-	1	1	3	-	2	23
410-414 Ischemic heart	35	957	706	16	61	84	95	31	35	577
420-429 Other heart	5	252	180	3	20	24	30	6	9	207
400-401, & 403 Hypertension	3	26	19	-	-	2	-	-	-	7
430-438 Cerebrovascular	23	332	250	3	20	28	41	11	7	190
440 Arteriosclerosis	1	64	39	1	3	4	6	-	5	47
460-519 Respiratory	8	272	211	2	22	20	38	7	12	170
480-486 Pneumonia	5	121	95	1	9	6	13	4	2	84
487 Influenza	1	2	1	-	5	5	1	-	-	5
490-491 Bronchitis	-	10	7	-	-	1	-	1	-	4
492 Emphysema	-	17	12	-	5	1	2	-	1	12
493 Asthma	1	3	2	-	-	-	2	-	1	1
531-533 Ulcer of stomach and duodenum	1	11	10	-	1	1	2	1	-	14
550-553, & 560 Hernia & intestinal obstruction	1	12	8	-	-	-	2	1	1	5
571 Chronic liver disease and cirrhosis	3	46	37	1	-	3	5	1	1	29
580-589 Nephritis, nephrotic syndrome & nephrosis	-	27	16	1	2	2	1	-	-	8
590 Kidney infection	-	1	-	-	-	-	5	-	-	1
630-676 Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759 Congenital anomalies	-	32	25	-	-	-	3	1	-	12
760-779 Infant mortality	1	29	18	-	3	2	1	-	2	18
780-799 Ill-defined	9	110	96	2	4	3	5	1	2	37
Residual Other diseases	10	259	207	2	14	7	12	9	9	127
E800-949 Accidents	10	119	79	4	13	10	17	2	15	100
E810-825 Motor vehicle	2	56	32	2	8	4	10	1	11	46
E880-888 Accidental falls	6	17	13	-	-	-	4	-	1	16
E950-959 Suicide	-	52	32	2	1	1	3	2	2	34
E960-978 Homicide & legal intervention	1	12	10	-	-	-	2	-	-	5
E980-999 Other violent deaths	-	5	4	-	-	-	-	-	-	5

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

		Duluth	Scott	Sherburne	Sibley	Stearns	Steele	Stevens	Swift	Todd	Traverse
DEATHS - Total		1,055	237	224	142	658	255	115	130	217	62
Rate:	Age & sex adjusted	9.7	7.3	9.8	6.9	6.8	7.8	8.8	7.3	6.6	7.4
Rate:	Sex adjusted-age specific										
	Under 5 years	3.8	2.7	1.7	1.6	2.5	2.7	3.5	1.9	3.0	5.3
	5-14 years	0.2	0.2	0.3	0.0	0.2	0.0	0.6	0.0	0.5	0.0
	15-24 years	0.9	0.8	0.6	0.0	0.7	0.7	0.7	0.9	0.4	2.2
	25-44 years	1.4	1.1	1.2	0.8	0.7	0.7	0.8	1.4	0.8	0.0
	45-64 years	10.2	6.4	6.9	7.4	7.7	5.1	7.0	7.9	6.1	8.8
	65 years and over	58.5	45.7	66.9	43.6	41.3	53.6	57.7	43.4	41.0	41.7
Sex:	Male	540	134	122	85	392	132	60	82	133	33
	Female	515	103	102	57	266	123	55	48	84	29
Race:	White	1,045	237	224	141	656	254	115	130	217	62
	Black	3	-	-	1	-	-	-	-	-	-
	Indian	5	-	-	-	-	-	-	-	-	-
	Other & Unknown	2	-	-	-	2	1	-	-	-	-
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	7	2	1	1	6	1	-	1	3	1
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	212	50	49	32	131	45	20	28	40	12
150-159	Digestive	62	16	16	12	37	14	5	10	11	7
160-165	Respiratory	46	7	12	2	20	8	7	7	5	1
174-175	Breast	28	5	10	3	13	4	1	1	5	1
179-187	Genital	27	5	2	5	18	11	2	3	8	1
188-189	Urinary	6	5	3	2	4	2	1	-	3	1
204-208	Leukemia	6	3	1	-	6	1	1	3	-	-
250	Diabetes mellitus	15	5	4	6	9	4	1	-	4	-
390-448	Major cardiovascular	547	109	124	71	360	145	62	62	120	37
390-398	Rheumatic heart	2	1	1	1	4	2	-	-	-	-
402,404	Hypertensive heart	11	2	3	-	12	4	1	1	-	-
410-414	Ischemic heart	283	66	61	42	218	82	26	37	72	21
420-429	Other heart	105	11	17	6	44	10	9	8	23	9
400-401, & 403	Hypertension	5	-	-	-	1	-	-	2	1	-
430-438	Cerebrovascular	92	21	26	16	52	35	18	8	17	6
440	Arteriosclerosis	26	6	10	5	17	7	4	3	3	-
460-519	Respiratory	98	19	15	6	31	16	8	15	17	4
480-486	Pneumonia	49	7	8	3	9	5	3	8	8	2
487	Influenza	4	-	-	-	2	1	1	2	-	-
490-491	Bronchitis	2	-	1	-	2	2	-	-	-	-
492	Emphysema	5	-	2	-	1	2	-	1	-	-
493	Asthma	1	1	-	-	-	1	1	1	1	-
531-533	Ulcer of stomach and duodenum	7	-	-	2	1	1	2	-	1	-
550-553, & 560	Hernia & intestinal obstruction	2	-	-	1	3	-	-	1	-	-
571	Chronic liver disease and cirrhosis	14	1	1	-	6	2	-	-	2	-
580-589	Nephritis, nephrotic syndrome & nephrosis	6	1	2	-	2	2	1	3	3	-
590	Kidney infection	1	-	-	-	1	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	5	1	3	-	7	3	3	1	-	-
760-779	Infant mortality	12	4	-	1	12	4	1	1	2	1
780-799	Ill-defined	24	7	-	12	7	2	2	-	1	1
Residual	Other diseases	54	14	7	7	31	16	7	11	10	3
E800-949	Accidents	27	22	16	2	45	14	8	6	12	2
E810-825	Motor vehicle	6	11	9	1	33	7	3	3	10	2
E880-888	Accidental falls	8	6	-	1	3	3	1	-	1	-
E950-959	Suicide	17	1	2	1	5	-	-	1	2	-
E960-978	Homicide & legal intervention	3	1	-	-	1	-	-	-	-	-
E980-999	Other violent deaths	4	-	-	-	-	-	-	-	-	1

Table 17
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1981 (CONT.)

		Wabasha	Wadena	Waseca	Washington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine	Unknown
DEATHS - Total		201	150	154	562	121	79	392	412	172	5
Rate:	Age & sex adjusted	8.5	8.1	7.5	8.1	7.0	7.3	7.8	7.8	8.9	-
Rate:	Sex adjusted-age specific										
	Under 5 years	0.6	2.5	3.5	2.7	3.1	4.4	4.2	2.6	4.7	-
	5-14 years	0.0	0.0	1.1	0.3	0.0	1.5	0.0	0.2	0.0	-
	15-24 years	1.2	1.6	1.1	1.2	1.0	0.0	0.9	1.2	0.8	-
	25-44 years	0.8	0.6	0.4	1.1	0.3	0.5	1.1	0.9	0.7	-
	45-64 years	7.0	6.7	6.3	6.2	4.8	5.7	5.3	7.9	9.1	-
	65 years and over	56.8	52.1	47.0	51.8	47.5	46.4	51.1	47.3	55.2	-
Sex:	Male	110	77	91	304	71	43	198	245	93	4
	Female	91	73	63	258	50	36	194	167	79	1
Race:	White	201	150	154	559	121	79	391	411	171	4
	Black	-	-	-	-	-	-	-	-	-	-
	Indian	-	-	-	1	-	-	-	-	1	-
	Other & Unknown	-	-	-	2	-	-	1	1	-	1
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	4	1	-	11	2	2	4	4	-	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	38	24	31	116	21	14	93	86	37	-
150-159	Digestive	9	5	6	32	5	5	36	20	8	-
160-165	Respiratory	9	4	6	21	4	2	18	21	9	-
174-175	Breast	1	2	5	6	3	-	8	5	2	-
179-187	Genital	6	4	2	18	2	2	8	11	5	-
188-189	Urinary	3	1	2	4	-	1	2	6	2	-
204-208	Leukemia	-	3	3	8	1	1	3	4	4	-
250	Diabetes mellitus	4	2	-	7	2	1	-	2	3	-
390-448	Major cardiovascular	110	93	87	227	69	41	184	197	92	-
390-398	Rheumatic heart	1	-	-	1	-	-	1	1	-	-
402,404	Hypertensive heart	1	2	-	1	1	-	12	-	1	-
410-414	Ischemic heart	61	50	50	129	38	29	74	106	59	-
420-429	Other heart	16	24	17	30	7	2	54	40	15	-
400-401, & 403	Hypertension	-	-	-	3	-	-	2	1	-	-
430-438	Cerebrovascular	24	13	15	47	20	6	23	35	16	-
440	Arteriosclerosis	4	1	4	6	2	-	9	8	-	-
460-519	Respiratory	11	7	8	40	5	6	33	29	13	-
480-486	Pneumonia	5	1	3	21	4	5	20	17	5	-
487	Influenza	1	1	-	2	-	-	-	-	1	-
490-491	Bronchitis	1	-	-	-	-	-	1	-	-	-
492	Emphysema	1	1	-	3	-	-	3	2	2	-
493	Asthma	-	-	-	-	-	-	-	1	-	-
531-533	Ulcer of stomach and duodenum	2	-	-	1	1	-	-	1	-	-
550-553, & 560	Hernia & intestinal obstruction	1	1	-	6	-	-	2	3	-	-
571	Chronic liver disease and cirrhosis	2	1	-	2	2	1	5	4	1	-
580-589	Nephritis, nephrotic syndrome & nephrosis	3	-	1	3	2	1	2	3	2	-
590	Kidney infection	-	-	-	-	-	-	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	-	2	6	1	2	1	4	-	-
760-779	Infant mortality	1	1	2	11	-	1	7	5	1	-
780-799	Ill-defined	-	-	1	19	1	1	3	7	2	3
Residual	Other diseases	17	10	11	45	5	5	31	28	11	-
E800-949	Accidents	7	8	10	52	10	3	21	32	8	1
E810-825	Motor vehicle	5	6	5	34	2	-	14	20	2	-
E880-888	Accidental falls	-	2	2	5	2	2	1	7	2	-
E950-959	Suicide	1	1	1	13	-	-	4	7	2	-
E960-978	Homicide & legal intervention	-	1	-	2	-	1	-	-	-	-
E980-999	Other violent deaths	-	-	-	1	-	-	1	-	-	1

* As of the 1980 Census
+ Includes unknown sex
** For detailed causes see pages 38-42

Marriage & Divorce

Table 18
MARRIAGES, DIVORCES, AND ANNULMENTS BY COUNTY OF OCCURRENCE
MINNESOTA, 1981

County	Marriages	Divorces	Annul-ments	Unknown Divorce or Annulment	County	Marriages	Divorces	Annul-ments	Unknown Divorce or Annulment
State Total	37,638	16,329	25	151					
Aitkin	100	49	-	-	Marshall	75	-	-	-
Anoka	1,471	1,001	-	-	Martin	197	88	-	-
Becker	255	92	-	-	Meeker	171	58	-	-
Beltrami	379	135	-	-	Mille Lacs	144	68	-	-
Benton	94	-	-	-	Morrison	243	83	-	-
Big Stone	60	10	-	-	Mower	376	106	-	4
Blue Earth	579	175	1	2	Murray	81	22	-	-
Brown	242	49	-	1	Nicollet	158	-	-	-
Carlton	272	131	-	3	Nobles	212	45	-	-
Carver	288	120	-	-	Norman	61	21	-	-
Cass	105	73	-	-	Olmsted	1,045	416	-	1
Chippewa	96	38	-	-	Otter Tail	296	164	-	-
Chisago	200	80	-	8	Pennington	147	52	-	-
Clay	594	99	-	36	Pine	177	60	-	-
Clearwater	93	38	-	-	Pipestone	109	27	-	-
Cook	38	23	-	-	Polk	325	139	-	-
Cottonwood	100	41	-	-	Pope	91	30	-	-
Crow Wing	414	177	-	-	Ramsey	4,493	2,137	6	1
Dakota	1,025	1,044	3	7	Red Lake	48	9	-	-
Dodge	123	54	-	1	Redwood	153	43	-	-
Douglas	249	106	-	-	Renville	141	45	-	-
Faribault	126	56	-	-	Rice	395	148	1	-
Fillmore	129	58	-	-	Rock	97	-	-	-
Freeborn	357	116	-	-	Roseau	108	32	-	1
Goodhue	319	123	-	1	St. Louis	2,089	942	-	59
Grant	47	21	-	1	Scott	440	171	-	1
Hennepin	11,121	4,797	10	3	Sherburne	174	129	-	-
Houston	168	48	-	-	Sibley	93	35	-	-
Hubbard	123	37	1	1	Stearns	1,153	278	-	-
Isanti	208	98	-	-	Steele	247	102	-	-
Itasca	342	172	-	1	Stevens	99	22	-	-
Jackson	108	27	-	-	Swift	83	21	-	-
Kanabec	118	52	-	-	Todd	130	55	-	1
Kandiyohi	336	132	-	-	Traverse	34	-	-	-
Kittson	61	10	-	1	Wabasha	126	52	-	-
Koochiching	152	75	-	-	Wadena	176	-	-	-
Lac Qui Parle	85	9	-	13	Waseca	160	48	-	-
Lake	104	57	-	1	Washington	783	537	1	-
Lake of the Woods	31	10	1	-	Watonwan	97	38	-	-
Le Sueur	136	49	-	-	Wilkin	72	20	-	-
Lincoln	57	16	-	-	Winona	395	144	-	2
Lyon	267	88	-	-	Wright	401	229	1	-
McLeod	236	85	-	-	Yellow Medicine	86	30	-	1
Mahnomen	49	12	-	-	Unknown	-	-	-	-

Table 19
MARRIAGES OCCURRING IN MINNESOTA
BY RACE OF BRIDE AND GROOM, 1981

BRIDE	GROOM								
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	OTHER* ASIAN	OTHER	UNKNOWN
TOTAL	37,638	33,334	681	246	37	12	131	15	3,182
WHITE	33,294	32,614	232	131	9	10	30	12	256
BLACK	467	46	411	1	-	-	-	-	9
INDIAN	249	125	8	110	-	-	1	-	5
CHINESE	34	8	-	-	25	-	-	-	1
JAPANESE	15	12	-	-	-	2	-	-	1
OTHER* ASIAN	147	47	3	-	-	-	95	-	2
OTHER	22	18	-	-	-	-	-	1	3
UNKNOWN	3,410	464	27	4	3	-	5	2	2,905

* Includes Pacific Islanders

Table 20
MARRIAGES OCCURRING IN MINNESOTA
BY AGE OF BRIDE AND GROOM, 1981

	Groom's Age														
Bride's Age	Total	Under 18	18-19	20	21-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Un-known*
Total	37,638	38	2,225	2,530	12,888	9,688	4,572	1,948	1,184	746	520	435	338	519	7
Under 18	832	24	362	163	217	59	4	-	2	1	-	-	-	-	-
18-19	5,905	12	1,384	1,207	2,559	605	106	25	3	2	-	-	-	2	-
20	3,853	2	275	632	2,160	642	110	20	8	2	-	1	-	-	1
21-24	12,819	-	173	453	6,756	4,065	1,046	214	72	20	9	6	2	2	1
25-29	7,226	-	19	54	1,018	3,483	1,814	551	175	76	21	12	1	1	1
30-34	3,149	-	5	17	141	677	1,166	637	315	121	44	18	6	2	-
35-39	1,334	-	4	1	19	124	250	345	286	168	73	44	11	9	-
40-44	854	-	1	-	9	24	59	123	240	183	111	67	24	13	-
45-49	467	-	-	-	1	4	8	26	64	115	128	64	36	20	1
50-54	328	-	-	-	-	2	4	3	17	42	90	91	60	19	-
55-59	283	-	-	2	-	-	2	1	1	10	33	84	91	59	-
60-64	259	-	-	-	2	-	-	-	-	4	10	36	74	133	-
65 & Over	310	-	-	-	1	1	-	-	-	2	1	12	33	259	1
Unknown*	19	-	2	1	5	2	3	3	1	-	-	-	-	-	2

* Includes age specified as legal

Table 21
MARRIAGES REPORTED IN MINNESOTA BY STATE OF RESIDENCE
1981

State of Residence	Marriages Reported		Percent of Marriages Reported	
	Residence of Bride	Residence of Groom	Residence of Bride	Residence of Groom
Total	37,638	37,638	100.0	100.0
Minnesota*	35,542	34,043	94.4	90.4
Other Areas and Unknown	2,096	3,595	5.6	9.6
Iowa	194	318	0.5	0.8
North Dakota	377	540	1.0	1.4
South Dakota	116	185	0.3	0.5
Wisconsin	441	646	1.2	1.7
Other States	921	1,786	2.4	4.7
U.S. Territories	1	2	0.0	0.0
Other Nations	46	118	0.1	0.3
Unknown	-	-	-	-

* The resident totals are not true resident totals for Minnesota. Information is not available at the present time on the number of Minnesotans who marry in other States.

Table 22
DIVORCES AND ANNULMENTS BY AGE OF HUSBAND AND WIFE
MINNESOTA, 1981

	Husband's Age												
Wife's Age	Total	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Unknown
Total	16,505	57	1,793	3,517	3,445	2,213	1,539	1,049	686	370	224	201	1,411
15-19	270	38	186	35	4	4	2	-	-	-	-	-	1
20-24	2,932	14	1,389	1,194	229	55	25	13	2	-	1	-	10
25-29	3,838	3	176	1,999	1,286	239	75	35	8	6	3	-	8
30-34	3,074	2	30	235	1,691	807	188	74	22	8	3	-	14
35-39	2,022	-	4	36	181	940	596	163	59	21	9	6	7
40-44	1,300	-	2	10	37	121	582	389	101	35	13	5	5
45-49	724	-	1	-	5	30	54	305	241	61	15	10	2
50-54	459	-	3	1	2	9	12	54	211	115	40	12	-
55-59	234	-	-	-	3	1	1	9	30	91	69	30	-
60-64	138	-	1	-	-	1	1	4	5	27	52	46	1
65 & Over	121	-	-	1	-	-	1	1	4	5	18	91	-
Unknown	1,393	-	1	6	7	6	2	2	3	1	1	1	1,363

Occupational Illness & Injury

Table 23
ESTIMATED NUMBER OF INJURIES AND ILLNESSES
BY MAJOR INDUSTRIAL CATEGORY
MINNESOTA, 1980 AND 1981

Industrial Category	Number of Estimated Injuries and Illnesses				Percent Change
	1980	% of Total	1981	% of Total	1980-1981
Agriculture, Forestry and Fisheries	759	1.5	900	1.8	+ 18.6
Mining	734	1.4	705	1.4	- 4.0
Construction	6,215	12.0	5,382	11.0	- 13.4
Manufacturing	18,138	34.9	16,317	33.4	- 10.0
Transportation & Public Utilities	4,973	9.6	4,493	9.2	- 9.7
Wholesale and Retail Trades	9,705	18.7	9,321	19.1	- 4.0
Finance, Insurance and Real Estate	736	1.4	674	1.4	- 8.4
Services	9,286	17.9	9,407	19.2	+ 1.3
Public Administration	1,422	2.7	1,705	3.5	+ 19.9
Nonclassified Industries	3	0.0	15	0.0	+400.0
Total	51,971	100.0	48,919	100.0	- 5.9

Table 24

ANNUAL AVERAGE EMPLOYMENT, PERCENT OF TOTAL EMPLOYMENT AND RATE OF OCCUPATIONAL INJURIES AND ILLNESSES PER 1,000 WORKERS BY INDUSTRIAL CATEGORY* MINNESOTA, 1980 AND 1981

Industrial Category	1980	1981
Mining		
Annual Average Employment	15,600	15,700
Percent	0.9	0.9
Rate of Injuries Per 1,000 Workers	47.1	44.9
Construction		
Annual Average Employment	76,400	67,900
Percent	4.3	3.9
Rate of Injuries Per 1,000 Workers	81.3	79.3
Manufacturing		
Annual Average Employment	370,900	362,300
Percent	21.0	20.6
Rate of Injuries Per 1,000 Workers	48.9	45.0
Transportation and Public Utilities		
Annual Average Employment	99,800	98,500
Percent	5.6	5.6
Rate of Injuries Per 1,000 Workers	49.8	45.6
Wholesale and Retail Trades		
Annual Average Employment	442,900	440,100
Percent	25.0	25.0
Rate of Injuries Per 1,000 Workers	21.9	21.2
Finance, Insurance and Real Estate		
Annual Average Employment	94,600	97,500
Percent	5.3	5.5
Rate of Injuries Per 1,000 Workers	7.8	6.9
Services		
Annual Average Employment	370,000	381,800
Percent	20.9	21.7
Rate of Injuries Per 1,000 Workers	25.1	24.6
Public Administration		
Annual Average Employment	300,100	298,900
Percent	17.0	17.0
Rate of Injuries Per 1,000 Workers	4.7	5.7
Total		
Average Annual Employment	1,770,300	1,762,700
Rate of Injuries Per 1,000 Workers	28.9	27.2

* Occupational injury and illness rates were calculated by dividing the number of estimated injuries for an industrial category by the average annual employment and are reported as rate per 1,000 workers.

Table 25
ESTIMATED NUMBER OF INJURIES AND ILLNESSES
BY MAJOR OCCUPATIONAL CATEGORY
MINNESOTA, 1980 AND 1981

Occupational Category	Number of Estimated Injuries and Illnesses				Percent Change
	1980	% of Total	1981	% of Total	1980-1981
Professional and Technical	2,179	4.2	2,378	4.9	+ 9.1
Managers and Administrators	1,275	2.5	2,095	4.3	+64.3
Sales Workers	888	1.7	757	1.5	-14.8
Clerical Workers	2,271	4.4	2,494	5.1	+ 9.8
Crafts Workers	9,772	18.8	8,787	18.0	-10.1
Operatives	15,655	30.1	13,337	27.3	-14.8
Laborers	8,876	17.1	7,589	15.5	-14.5
Farmers	436	0.8	353	0.7	-19.0
Service Workers	8,031	15.5	8,062	16.5	+ 0.4
Not Reported	2,588	5.0	3,067	6.3	+18.5
Total	51,971	100.0	48,919	100.0	+ 5.9

Table 26
ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES
BY TYPE OF ACCIDENT
MINNESOTA, 1980 AND 1981

Type of Accident	Number of Estimated Injuries and Illnesses				Percent Change
	1980	% of Total	1981	% of Total	1980-1981
Struck against or by Object	10,059	19.4	9,735	19.9	- 3.2
Fall	6,613	12.7	7,036	14.4	+ 6.4
Caught in, under or between Objects	3,058	5.9	2,411	4.9	-21.2
Abraded	471	0.9	246	0.5	-47.8
Motion	6,621	12.7	4,845	9.9	-26.8
Over Exertion	16,070	30.9	15,138	30.9	- 5.8
Contact with Electricity	128	0.2	64	0.1	-50.0
Contact with Extreme Temperature	1,098	2.1	890	1.8	-18.9
Contact with Toxic Radiation	1,211	2.3	1,088	2.2	-10.2
Public Transportation	44	0.1	30	0.1	-31.8
Motor Vehicle Accidents	1,166	2.2	1,066	2.2	- 8.5
Exposure to Noise	63	0.1	63	0.1	0.0
Explosion	168	0.3	79	0.2	-53.0
Accidents, N.E.C.	562	1.1	548	1.1	- 2.5
Unclassified Data	4,639	8.9	5,680	11.6	+22.4
Total	51,971	100.0	48,919	100.0	- 5.8

Table 27
ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY
MINNESOTA, 1980 AND 1981

Nature of Injury	Number of Estimated Injuries and Illnesses 1980	% of Total	1981	% of Total	Percent Change 1980-1981
Amputation	174	0.3	135	0.3	- 22.4
Laceration	5,349	10.3	5,389	11.0	+ 0.7
Contusion	3,932	7.6	4,376	8.9	+ 11.3
Abrasion	585	1.1	633	1.3	+ 8.2
Heat Burn	1,112	2.1	926	1.9	- 16.7
Chemical Burn	462	0.9	328	0.7	- 29.0
Concussion	137	0.3	99	0.2	- 27.7
Fracture	3,681	7.1	3,574	7.3	- 2.9
Dislocation	762	1.5	981	2.0	+ 28.7
Sprain	19,606	37.7	21,264	43.5	+ 8.5
Hernia	1,083	2.1	1,113	2.3	+ 2.8
Asphyxia	10	0.0	6	0.0	- 40.0
Barometric Effects	3	0.0	0	0.0	-100.0
Frostbite, Freezing	24	0.0	6	0.0	- 75.0
Heat Stroke	21	0.0	6	0.0	- 71.4
Electric Shock	83	0.2	52	0.1	- 37.3
Hearing Loss	84	0.2	78	0.2	- 7.1

Table 27
ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY, MINNESOTA, 1980 AND 1981 (CONT.)

Nature of Injury	Number of Estimated Injuries and Illnesses 1980	% of Total	1981	% of Total	Percent Change 1980-1981
Infective Diseases	25	0.0	48	0.1	+ 92.0
Respiratory Diseases	96	0.2	85	0.2	- 11.5
Pneumoconiosis	9	0.0	18	0.0	+100.0
Poisoning	294	0.6	357	0.7	+ 21.4
Mental Diseases	39	0.1	39	0.1	0.0
Nervous System Diseases	59	0.1	117	0.2	+ 98.3
Neoplasm	15	0.0	17	0.0	+ 13.3
Radiation Effects	36	0.1	45	0.1	+ 25.0
Dermatitis	498	1.0	423	0.9	- 15.1
Circulatory System	204	0.4	148	0.3	- 27.5
Heart Attack	335	0.6	390	0.8	+ 16.4
Eye Diseases	30	0.1	18	0.0	- 40.0
Inflammation of Joints	1,398	2.7	1,494	3.1	- 6.9
Hemmorrhoids	12	0.0	21	0.0	+ 75.0
Multiple Injuries	1,002	1.9	859	1.8	- 14.3
Unclassified	10,811	20.8	5,874	12.0	- 45.7
Total	51,971	100.0	48,919	100.0	- 5.9

Table 28
ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY
PART OF BODY INJURED
MINNESOTA, 1980 AND 1981

Part of Body	Number of Estimated Injuries and Illnesses 1980	% of Total	1981	% of Total	Percent Change 1980-1981
Head	1,191	2.3	863	1.8	-27.5
Eye	1,110	2.1	1,011	2.1	- 8.9
Neck	771	1.5	734	1.5	- 4.8
Upper Extremities, Except Finger	6,423	12.4	6,402	13.1	- 0.3
Finger	5,202	10.0	4,608	9.4	-11.4
Trunk, Except Back	5,275	10.1	5,086	10.4	- 3.6
Back	15,855	30.5	14,874	30.4	- 6.2
Lower Extremities, Except Leg	4,875	9.4	4,432	9.1	- 9.1
Leg	4,219	8.1	4,284	8.8	+ 1.5
Body Systems	966	1.9	1,182	2.4	+22.4
Multiple Parts	4,126	7.9	3,713	7.6	-10.0
Body Parts Unclassified	1,958	3.8	1,730	3.5	-11.6
Total	51,971	100.0	48,919	100.0	- 5.9

Population

POPULATION OF MINNESOTA

The population of Minnesota grew from 4,075,970 on April 1, 1980 to an estimated 4,099,048 on April 1, 1981, a growth rate of 6/10 of 1 percent. During this same period, the population of the United States grew by 1.2 percent, twice as quickly as Minnesota.

The Minnesota growth rate is virtually unchanged from the average growth rate of 7/10 of 1 percent experienced each year between 1970 and 1980. Minnesota's population growth during this interval was the slowest since the 1940's and the second slowest in the state's history. The state's growth rate during the 1970's was substantially less than the 11.5 percent growth experienced between 1960 and 1970 and the 14.5 percent growth recorded during the peak "baby boom" years of the 1950's. Minnesota's population dynamic is consistent with a national trend towards slower growth; the population of the United States grew by 19.0 percent during the 1950's, 13.3 percent during the 1960's, and 11.4 percent between 1970 and 1980.

The change in the state's population, however, is not evenly distributed. Population growth is most rapid in the outer suburbs of the Twin Cities area, and this ring of rapid growth has continually widened in the past thirty years. Substantial growth has also occurred in the lake and forest areas of northcentral and northwestern Minnesota.

Population growth in the state's agricultural areas is much less rapid, with some areas of the state experiencing continued population loss since World War II. The cities of Minneapolis and St. Paul also lost population, as they have since the 1950's, but for the first time the area of population decline extends outward to include many of the inner Twin Cities suburbs.

Rural, non-agricultural population growth in Minnesota is now more rapid than growth in either urban or suburban areas.

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STATE TOTAL	4,099,048	316,214	615,979	784,016	1,158,686	737,714	486,439
MALE	2,009,339	162,041	315,335	392,572	579,986	359,084	199,521
FEMALE	2,089,709	154,173	300,644	391,444	578,700	377,830	286,918
NORTHWESTERN REGION	162,891	13,391	25,450	30,642	38,937	29,939	24,532
MALE	81,554	6,837	13,082	15,747	19,816	14,822	11,250
FEMALE	81,337	6,554	12,368	14,895	19,121	15,117	13,282
NORTHEASTERN REGION	345,411	26,168	50,880	63,304	90,905	67,287	46,867
MALE	170,923	13,555	26,125	31,974	46,440	32,781	20,048
FEMALE	174,488	12,613	24,755	31,330	44,465	34,506	26,819
WEST CENTRAL REGION	206,561	15,628	29,752	41,608	48,581	39,180	31,812
MALE	102,192	8,022	15,240	20,940	24,683	19,167	14,140
FEMALE	104,369	7,606	14,512	20,668	23,898	20,013	17,672
CENTRAL REGION	461,563	40,367	77,326	91,090	117,877	77,572	57,331
MALE	230,336	20,684	39,602	46,117	59,553	38,588	25,792
FEMALE	231,227	19,683	37,724	44,973	58,324	38,984	31,539
SOUTHWESTERN REGION	306,222	24,413	45,818	53,311	72,388	60,129	50,163
MALE	151,575	12,464	23,675	27,390	37,037	29,192	21,817
FEMALE	154,647	11,949	22,143	25,921	35,351	30,937	28,346
SOUTH CENTRAL REGION	221,062	17,685	31,398	45,134	54,900	40,249	31,696
MALE	108,739	9,083	16,090	22,568	28,215	19,500	13,283
FEMALE	112,323	8,602	15,308	22,566	26,685	20,749	18,413
SOUTHEASTERN REGION	405,728	31,660	60,964	79,135	106,658	73,477	53,834
MALE	197,754	16,259	31,108	38,942	53,518	35,830	22,097
FEMALE	207,974	15,401	29,856	40,193	53,140	37,647	31,737
METROPOLITAN REGION	1,989,610	146,902	294,391	379,792	628,440	349,881	190,204
MALE	966,266	75,137	150,413	188,894	310,724	170,004	71,094
FEMALE	1,023,344	71,765	143,978	190,898	317,716	179,877	119,110

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
AITKIN	13,621	957	1,933	2,082	3,074	2,854	2,721
MALE	6,814	520	974	1,099	1,554	1,364	1,303
FEMALE	6,807	437	959	983	1,520	1,490	1,418
ANOKA	199,817	17,637	38,537	38,800	66,317	29,832	8,694
MALE	99,964	9,062	19,726	19,495	32,731	15,312	3,638
FEMALE	99,853	8,575	18,811	19,305	33,586	14,520	5,056
BECKER	30,503	2,535	5,128	5,282	7,494	5,559	4,505
MALE	15,315	1,346	2,688	2,759	3,770	2,707	2,045
FEMALE	15,188	1,189	2,440	2,523	3,724	2,852	2,460
BELTRAMI	32,616	2,745	4,860	8,146	8,148	5,164	3,553
MALE	16,274	1,391	2,513	4,080	4,144	2,528	1,618
FEMALE	16,342	1,354	2,347	4,066	4,004	2,636	1,935
BENTON	25,953	2,622	4,319	5,079	7,223	3,869	2,841
MALE	12,808	1,321	2,219	2,499	3,664	1,926	1,179
FEMALE	13,145	1,301	2,100	2,580	3,559	1,943	1,662
BIG STONE	7,699	561	1,075	1,219	1,638	1,625	1,581
MALE	3,760	268	534	646	827	815	670
FEMALE	3,939	293	541	573	811	810	911
BLUE EARTH	52,306	4,104	6,422	13,786	13,471	8,469	6,054
MALE	25,474	2,131	3,254	6,642	6,976	4,066	2,405
FEMALE	26,832	1,973	3,168	7,144	6,495	4,403	3,649
BROWN	28,370	2,156	4,199	5,578	6,631	5,356	4,450
MALE	13,790	1,108	2,187	2,697	3,333	2,635	1,830
FEMALE	14,580	1,048	2,012	2,881	3,298	2,721	2,620
CARLTON	30,005	2,291	4,869	5,174	7,820	5,973	3,878
MALE	15,005	1,177	2,560	2,635	3,966	2,969	1,698
FEMALE	15,000	1,114	2,309	2,539	3,854	3,004	2,180

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
CARVER	38,527	3,335	6,472	7,632	11,358	6,281	3,449
MALE	19,384	1,734	3,346	3,846	5,788	3,214	1,456
FEMALE	19,143	1,601	3,126	3,786	5,570	3,067	1,993
CASS	21,385	1,583	3,157	3,215	4,779	4,571	4,080
MALE	10,594	803	1,554	1,656	2,369	2,221	1,991
FEMALE	10,791	780	1,603	1,559	2,410	2,350	2,089
CHIPPEWA	15,088	1,244	2,121	2,395	3,613	3,020	2,695
MALE	7,385	612	1,112	1,210	1,852	1,442	1,157
FEMALE	7,703	632	1,009	1,185	1,761	1,578	1,538
CHISAGO	26,264	2,297	4,716	4,472	7,225	4,379	3,175
MALE	13,258	1,227	2,453	2,296	3,641	2,208	1,433
FEMALE	13,006	1,070	2,263	2,176	3,584	2,171	1,742
CLAY	49,506	3,554	6,515	14,114	12,099	8,189	5,035
MALE	24,080	1,808	3,303	6,669	6,132	4,032	2,136
FEMALE	25,426	1,746	3,212	7,445	5,967	4,157	2,899
CLEARWATER	9,054	751	1,493	1,542	2,031	1,664	1,573
MALE	4,610	397	765	829	1,013	850	756
FEMALE	4,444	354	728	713	1,018	814	817
COOK	4,160	283	582	615	1,206	839	635
MALE	2,134	152	309	307	629	427	310
FEMALE	2,026	131	273	308	577	412	325
COTTONWOOD	14,318	1,121	2,170	2,191	3,341	2,827	2,668
MALE	6,970	576	1,082	1,139	1,720	1,352	1,101
FEMALE	7,348	545	1,088	1,052	1,621	1,475	1,567
CROW WING	41,561	3,194	6,313	6,884	10,367	8,177	6,626
MALE	20,081	1,610	3,158	3,373	5,117	3,858	2,965
FEMALE	21,480	1,584	3,155	3,511	5,250	4,319	3,661

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
DAKOTA	197,527	17,026	36,401	36,539	65,279	30,270	12,012
MALE	97,619	8,599	18,562	18,312	31,934	15,344	4,868
FEMALE	99,908	8,427	17,839	18,227	33,345	14,926	7,144
DODGE	15,034	1,442	2,513	2,518	4,066	2,592	1,903
MALE	7,403	708	1,222	1,295	2,070	1,297	811
FEMALE	7,631	734	1,291	1,223	1,996	1,295	1,092
DOUGLAS	28,376	2,237	4,144	5,284	6,860	5,279	4,572
MALE	13,935	1,096	2,097	2,638	3,490	2,581	2,033
FEMALE	14,441	1,141	2,047	2,646	3,370	2,698	2,539
FARIBAULT	19,605	1,532	2,704	3,150	4,511	4,109	3,599
MALE	9,536	781	1,396	1,641	2,310	1,952	1,456
FEMALE	10,069	751	1,308	1,509	2,201	2,157	2,143
FILLMORE	21,989	1,672	3,378	3,390	5,059	4,456	4,034
MALE	10,994	900	1,789	1,773	2,593	2,179	1,760
FEMALE	10,995	772	1,589	1,617	2,466	2,277	2,274
FREEBORN	35,705	2,635	5,302	6,015	8,925	7,388	5,440
MALE	17,531	1,325	2,742	3,101	4,525	3,597	2,241
FEMALE	18,174	1,310	2,560	2,914	4,400	3,791	3,199
GOODHUE	39,040	3,034	5,937	6,772	10,017	7,162	6,118
MALE	19,271	1,555	2,993	3,589	5,095	3,495	2,544
FEMALE	19,769	1,479	2,944	3,183	4,922	3,667	3,574
GRANT	7,321	544	1,006	1,076	1,587	1,526	1,582
MALE	3,602	293	494	550	805	743	717
FEMALE	3,719	251	512	526	782	783	865
HENNEPIN	935,723	62,022	120,982	175,106	299,962	175,176	102,475
MALE	449,890	31,503	61,777	86,764	148,220	84,060	37,566
FEMALE	485,833	30,519	59,205	88,342	151,742	91,116	64,909

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
HOUSTON	18,356	1,468	2,919	3,175	4,531	3,535	2,728
MALE	9,146	791	1,451	1,651	2,319	1,733	1,201
FEMALE	9,210	677	1,468	1,524	2,212	1,802	1,527
HUBBARD	14,448	1,130	2,241	2,299	3,487	2,895	2,396
MALE	7,122	538	1,117	1,196	1,713	1,415	1,143
FEMALE	7,326	592	1,124	1,103	1,774	1,480	1,253
ISANTI	24,936	2,096	4,617	4,409	7,325	3,791	2,698
MALE	12,473	1,045	2,381	2,306	3,632	1,918	1,191
FEMALE	12,463	1,051	2,236	2,103	3,693	1,873	1,507
ITASCA	45,239	3,902	7,310	7,722	11,883	8,696	5,726
MALE	22,699	2,027	3,767	3,887	6,059	4,271	2,688
FEMALE	22,540	1,875	3,543	3,835	5,824	4,425	3,038
JACKSON	13,499	1,017	1,964	2,388	3,092	2 817	2,221
MALE	6,732	536	1,004	1,275	1,596	1,362	959
FEMALE	6,767	481	960	1,113	1,496	1,455	1,262
KANABEC	12,250	1,058	2,057	2,082	2,988	2,318	1,747
MALE	6,067	557	1,033	1,059	1,462	1,147	809
FEMALE	6,183	501	1,024	1,023	1,526	1,171	938
KANDIYOHI	38,618	3,160	5,588	7,439	10,001	7,013	5,417
MALE	19,039	1,620	2,915	3,614	5,038	3,405	2,447
FEMALE	19,579	1,540	2,673	3,825	4,963	3,608	2,970
KITTSON	6,641	537	960	965	1,553	1,373	1,253
MALE	3,316	275	499	501	818	670	553
FEMALE	3,325	262	461	464	735	703	700
KOOCHICHING	17,992	1,457	2,967	3,115	4,745	3,572	2,136
MALE	8,966	760	1,502	1,567	2,391	1,757	989
FEMALE	9,026	697	1,465	1,548	2,354	1,815	1,147

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
LAC QUI PARLE	10,447	762	1,459	1,616	2,339	2,250	2,021
MALE	5,237	393	731	836	1,237	1,114	926
FEMALE	5,210	369	728	780	1,102	1,136	1,095
LAKE	13,355	1,056	1,960	2,280	3,621	2,918	1,520
MALE	6,893	561	1,001	1,188	1,941	1,514	688
FEMALE	6,462	495	959	1,092	1,680	1,404	832
LAKE OF THE WOODS	3,901	286	569	624	957	830	635
MALE	1,963	144	291	342	496	398	292
FEMALE	1,938	142	278	282	461	432	343
LESUEUR	23,336	1,905	3,871	4,109	5,892	4,182	3,377
MALE	11,665	953	1,975	2,191	2,994	2,041	1,511
FEMALE	11,671	952	1,896	1,918	2,898	2,141	1,866
LINCOLN	8,168	633	1,228	1,285	1,751	1,705	1,566
MALE	4,071	309	634	685	885	853	705
FEMALE	4,097	324	594	600	866	852	861
LYON	25,494	2,118	3,744	5,528	6,223	4,446	3,435
MALE	12,708	1,115	1,979	2,793	3,221	2,138	1,462
FEMALE	12,786	1,003	1,765	2,735	3,002	2,308	1,973
MCLEOD	29,470	2,420	4,744	4,974	7,787	5,357	4,188
MALE	14,634	1,264	2,481	2,547	3,930	2,623	1,789
FEMALE	14,836	1,156	2,263	2,427	3,857	2,734	2,399
MAHNOMEN	5,739	499	1,072	994	1,174	1,099	901
MALE	2,934	257	533	525	603	563	453
FEMALE	2,805	242	539	469	571	536	448
MARSHALL	13,039	1,100	2,143	2,129	3,103	2,581	1,983
MALE	6,690	600	1,128	1,126	1,588	1,336	912
FEMALE	6,349	500	1,015	1,003	1,515	1,245	1,071

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
MARTIN	24,469	1,859	3,474	4,019	6,050	4,924	4,143
MALE	11,984	989	1,769	2,077	3,067	2,362	1,720
FEMALE	12,485	870	1,705	1,942	2,983	2,562	2,423
MEEKER	20,894	1,711	3,360	3,403	4,983	4,044	3,393
MALE	10,398	869	1,716	1,770	2,561	1,982	1,500
FEMALE	10,496	842	1,644	1,633	2,422	2,062	1,893
MILLE LACS	18,430	1,576	2,878	3,179	4,396	3,368	3,033
MALE	9,212	840	1,556	1,635	2,181	1,656	1,344
FEMALE	9,218	736	1,322	1,544	2,215	1,712	1,689
MORRISON	29,346	2,675	5,200	5,290	6,668	5,414	4,099
MALE	14,553	1,368	2,639	2,696	3,341	2,647	1,862
FEMALE	14,793	1,307	2,561	2,594	3,327	2,767	2,237
MOWER	40,111	2,833	5,614	6,911	9,022	9,274	6,457
MALE	19,555	1,485	2,860	3,504	4,560	4,443	2,703
FEMALE	20,556	1,348	2,754	3,407	4,462	4,831	3,754
MURRAY	11,537	930	1,794	1,894	2,577	2,478	1,864
MALE	5,779	459	935	976	1,352	1,206	851
FEMALE	5,758	471	859	918	1,225	1,272	1,013
NICOLLET	27,108	2,200	3,917	6,552	7,307	4,261	2,871
MALE	13,458	1,133	1,990	3,208	3,822	2,102	1,203
FEMALE	13,650	1,067	1,927	3,344	3,485	2,159	1,668
NOBLES	22,263	1,689	3,337	3,998	5,228	4,467	3,544
MALE	10,913	865	1,724	2,078	2,641	2,148	1,457
FEMALE	11,350	824	1,613	1,920	2,587	2,319	2,087
NORMAN	9,412	746	1,411	1,363	2,014	1,936	1,942
MALE	4,726	355	730	723	1,027	980	911
FEMALE	4,686	391	681	640	987	956	1,031

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
OLMSTED	92,998	7,482	14,351	18,152	28,957	15,304	8,752
MALE	44,210	3,831	7,305	8,320	14,053	7,478	3,223
FEMALE	48,788	3,651	7,046	9,832	14,904	7,826	5,529
OTTER TAIL	53,721	3,873	7,679	8,820	12,474	11,120	9,755
MALE	26,794	2,016	3,939	4,615	6,344	5,439	4,441
FEMALE	26,927	1,857	3,740	4,205	6,130	5,681	5,314
PENNINGTON	14,797	1,232	2,300	2,823	3,849	2,452	2,141
MALE	7,284	634	1,169	1,421	1,954	1,202	904
FEMALE	7,513	598	1,131	1,402	1,895	1,250	1,237
PINE	20,099	1,714	3,168	3,388	4,913	3,876	3,040
MALE	10,278	888	1,625	1,792	2,611	1,950	1,412
FEMALE	9,821	826	1,543	1,596	2,302	1,926	1,628
PIPESTONE	11,833	910	1,692	2,095	2,565	2,385	2,186
MALE	5,714	434	854	1,099	1,300	1,123	904
FEMALE	6,119	476	838	996	1,265	1,262	1,282
POLK	34,901	2,765	5,346	6,569	8,233	6,609	5,379
MALE	17,245	1,422	2,757	3,357	4,167	3,197	2,345
FEMALE	17,656	1,343	2,589	3,212	4,066	3,412	3,034
POPE	11,825	959	1,690	1,804	2,604	2,496	2,272
MALE	5,886	478	851	961	1,342	1,237	1,017
FEMALE	5,939	481	839	843	1,262	1,259	1,255
RAMSEY	457,522	33,296	61,681	91,872	133,802	83,401	53,470
MALE	218,251	17,258	31,401	45,026	66,029	39,210	19,327
FEMALE	239,271	16,038	30,280	46,846	67,773	44,191	34,143
RED LAKE	5,426	477	916	1,004	1,219	959	851
MALE	2,742	238	453	529	643	482	397
FEMALE	2,684	239	463	475	576	477	454

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
REDWOOD	19,284	1,485	2,988	3,180	4,445	3,788	3,398
MALE	9,550	739	1,532	1,660	2,268	1,882	1,469
FEMALE	9,734	746	1,456	1,520	2,177	1,906	1,929
RENVILLE	20,207	1,617	3,007	3,374	4,515	4,190	3,504
MALE	10,104	839	1,574	1,777	2,317	2,039	1,558
FEMALE	10,103	778	1,433	1,597	2,198	2,151	1,946
RICE	46,458	3,588	6,828	11,728	11,683	7,275	5,356
MALE	22,887	1,770	3,520	5,991	5,872	3,537	2,197
FEMALE	23,571	1,818	3,308	5,737	5,811	3,738	3,159
ROCK	10,946	914	1,725	1,745	2,556	2,287	1,719
MALE	5,350	460	862	894	1,308	1,095	731
FEMALE	5,596	454	863	851	1,248	1,192	988
ROSEAU	12,917	1,123	2,139	2,184	3,169	2,377	1,925
MALE	6,648	586	1,127	1,118	1,650	1,201	966
FEMALE	6,269	537	1,012	1,066	1,519	1,176	959
ST LOUIS	221,039	16,222	31,259	42,316	58,556	42,435	30,251
MALE	108,412	8,358	16,012	21,291	29,900	20,479	12,372
FEMALE	112,627	7,864	15,247	21,025	28,656	21,956	17,879
SCOTT	45,768	4,042	8,630	8,812	14,036	6,853	3,395
MALE	23,091	2,088	4,498	4,515	7,031	3,504	1,455
FEMALE	22,677	1,954	4,132	4,297	7,005	3,349	1,940
SHERBURNE	31,393	2,982	5,935	6,122	9,510	4,310	2,534
MALE	16,015	1,511	3,000	3,321	4,876	2,194	1,113
FEMALE	15,378	1,471	2,935	2,801	4,634	2,116	1,421
SIBLEY	15,319	1,256	2,362	2,512	3,525	3,106	2,558
MALE	7,641	629	1,204	1,280	1,827	1,519	1,182
FEMALE	7,678	627	1,158	1,232	1,698	1,587	1,376

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STEARNS	110,372	9,216	17,141	29,471	26,546	17,096	10,902
MALE	55,177	4,806	8,821	14,529	13,530	8,645	4,846
FEMALE	55,195	4,410	8,320	14,942	13,016	8,451	6,056
STEELE	30,850	2,604	4,765	5,802	8,308	5,466	3,905
MALE	15,161	1,316	2,461	2,857	4,205	2,671	1,651
FEMALE	15,689	1,288	2,304	2,945	4,103	2,795	2,254
STEVENS	11,260	853	1,538	2,749	2,466	2,045	1,609
MALE	5,567	443	797	1,404	1,287	968	668
FEMALE	5,693	410	741	1,345	1,179	1,077	941
SWIFT	12,918	1,049	1,965	2,134	2,813	2,679	2,278
MALE	6,417	551	1,019	1,101	1,454	1,283	1,009
FEMALE	6,501	498	946	1,033	1,359	1,396	1,269
TODD	25,904	2,294	4,300	4,465	5,914	4,865	4,066
MALE	13,066	1,180	2,212	2,345	3,004	2,428	1,897
FEMALE	12,838	1,114	2,088	2,120	2,910	2,437	2,169
TRAVERSE	5,473	380	763	896	1,074	1,231	1,129
MALE	2,726	202	400	458	544	611	511
FEMALE	2,747	178	363	438	530	620	618
WABASHA	19,157	1,600	3,065	3,243	4,845	3,470	2,934
MALE	9,523	828	1,549	1,663	2,498	1,742	1,243
FEMALE	9,634	772	1,516	1,580	2,347	1,728	1,691
WADENA	14,223	1,185	2,328	2,480	3,218	2,669	2,343
MALE	6,999	588	1,184	1,286	1,614	1,307	1,020
FEMALE	7,224	597	1,144	1,194	1,604	1,362	1,323
WASECA	18,554	1,706	2,788	3,518	4,700	3,332	2,510
MALE	9,246	871	1,470	1,824	2,426	1,621	1,034
FEMALE	9,308	835	1,318	1,694	2,274	1,711	1,476

Table 29. POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1981

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
WASHINGTON	114,726	9,544	21,688	21,031	37,686	18,068	6,709
MALE	58,067	4,893	11,103	10,936	18,991	9,360	2,784
FEMALE	56,659	4,651	10,585	10,095	18,695	8,708	3,925
WATONWAN	11,995	967	1,661	1,910	2,813	2,510	2,134
MALE	5,945	488	845	1,008	1,460	1,202	942
FEMALE	6,050	479	816	902	1,353	1,308	1,192
WILKIN	8,576	693	1,289	1,583	1,923	1,735	1,353
MALE	4,287	340	671	886	969	849	572
FEMALE	4,289	353	618	697	954	886	781
WINONA	46,030	3,302	6,292	11,429	11,245	7,555	6,207
MALE	22,073	1,750	3,216	5,198	5,728	3,658	2,523
FEMALE	23,957	1,552	3,076	6,231	5,517	3,897	3,684
WRIGHT	59,447	5,875	11,197	10,554	16,805	8,869	6,147
MALE	29,755	2,940	5,767	5,324	8,511	4,483	2,730
FEMALE	29,692	2,935	5,430	5,230	8,294	4,386	3,417
YELLOW MEDICINE	13,539	1,072	1,857	2,453	2,921	2,751	2,485
MALE	6,814	555	987	1,290	1,530	1,330	1,122
FEMALE	6,725	517	870	1,163	1,391	1,421	1,363
MINNEAPOLIS	368,308	24,217	37,227	70,637	120,380	59,298	56,549
MALE	173,269	12,289	18,916	34,394	61,009	27,284	19,377
FEMALE	195,039	11,928	18,311	36,243	59,371	32,014	37,172
ST PAUL	268,750	19,971	32,842	52,909	75,727	46,898	40,403
MALE	125,553	10,274	16,798	25,487	37,666	21,213	14,115
FEMALE	143,197	9,697	16,044	27,422	38,061	25,685	26,288
DULUTH	91,699	6,349	11,405	19,535	23,654	16,661	14,095
MALE	43,370	3,214	5,845	9,493	11,829	7,753	5,236
FEMALE	48,329	3,135	5,560	10,042	11,825	8,908	8,859

DEFINITIONS

Residence: This is the geographic area of the usual place of abode of the deceased at the time of death or of the mother in the case of live births or fetal deaths. This means, in general, the place where one lives and sleeps most of the time. However, when usual residence is in a nursing home or other institution, where the patient resided for the purpose of receiving care, residence is coded to the place where the patient lived prior to admission to the institution.

Region: Region refers to the eight Minnesota Department of Health Districts. Region names and counties within regions follow:

Northwestern:	Beltrami, Clearwater, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake, and Roseau
Northeastern:	Aitkin, Carlton, Cook, Itasca, Koochiching, Lake, and St. Louis
West Central:	Becker, Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin
Central:	Benton, Cass, Chisago, Crow Wing, Isanti, Kanabec, Mille Lacs, Morrison, Pine, Sherburne, Stearns, Todd, Wadena, and Wright
Southwestern:	Big Stone, Chippewa, Cottonwood, Jackson, Kandiyohi, Lac Qui Parle, Lincoln, Lyon, McLeod, Meeker, Murray, Nobles, Pipestone, Redwood, Renville, Rock, Swift, and Yellow Medicine
South Central:	Blue Earth, Brown, Faribault, Le Sueur, Martin, Nicollet, Sibley, Waseca, and Watonwan
Southeastern:	Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona
Metropolitan:	Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington.

Rate: Rates are given per 1,000 except for certain causes of death when they are stated as per 100,000.

Live Birth: Live birth means the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered a live born.

Birth Rate: The number of live births per 1,000 population.

Fertility Rate: The number of live births per 1,000 women in the population of age 15 through 44 years.

High Risk Birth: A birth is classified as high risk if any of the following conditions exist:

Mother's age: Less than 17 years or over 39 years.
Prenatal care: Less than 3 visits.
Condition not related to pregnancy: Tuberculosis, rubella, diabetes, or cardiac condition.
Condition related to pregnancy: Hydramnios, urinary tract infection, or toxemia.
Condition of labor: Prolonged labor.
Birth weight: 2,500 grams or less, (5 lb. 8 oz.)
Birth injury: To brain, spinal cord, fractures, other bone injury, paralysis, or nerve injuries.
Birth condition: Hemolytic diseases of newborn, hyaline membrane D, respiratory distress syndrome, or atelectasis.
Congenital anomaly.

Live Birth Order: The number of live births including the current birth.

Fetal Death: Fetal death is death prior to the complete expulsion or extraction of a product of conception from its mother, irrespective of the duration of pregnancy. In this summary only the fetal deaths of 20 weeks or more are reported.

Fetal Death Order: The number of fetal deaths including the current fetal death.

Maternal Death: Maternal death is a death attributable to delivery or a complication of pregnancy, childbirth, or the puerperium, as defined by the International Classification of Diseases.

Infant Death: A death under one year of age.

Neonatal Death: A death during the first 4 weeks of life.

Perinatal Mortality Rate: The number of fetal deaths of 20 weeks or more plus the number of neonatal deaths per 1,000 live births.

Cause of Death: The Ninth Revision of the International Classification of Diseases (ICD) was used.

Adjusted Death Rates: Total rates for counties and cities are adjusted for sex and age on the basis of the state population.

Specific age group rates for counties and cities have been adjusted for sex on the basis of the state population for the specific age group.

E R R A T A

An error in an existing computer program caused incomplete tabulations of neonatal death data pertaining to residents of Minnesota cities. These data were displayed in the tables entitled "Live Births, Fetal Deaths, Infant Deaths, and Neonatal Deaths by Urban Area of Residence" in 1979 (pages 17-20) and 1980 (pages 69-72) Minnesota Health Statistics. The following lists denote new tabulations for cities where original data were incorrectly reported.

1979

Urban Area	# of Neonatal Deaths Original	Corrected
Bloomington	4	5
Breckenridge	1	2
Brooklyn Center	3	4
Brooklyn Park	3	4
Buffalo	1	2
Coon Rapids	4	5
Crookston	1	2
Detroit Lakes	2	3
Duluth	10	12
Edina	3	4
Ely	1	2
Forest Lake	-	1
Hastings	-	1
Inver Grove Heights	2	3
Lake Elmo	1	2
Litchfield	-	1
Little Canada	2	4
Little Falls	1	2
Minneapolis	40	45
Moorhead	2	4
New Brighton	-	1
Richfield	3	5
Robbinsdale	-	1
Rochester	7	8
St. Cloud	1	2
St. Louis Park	4	5
St. Paul	23	26
Sauk Centre	1	2
Sauk Rapids	1	2
Stillwater	3	4
West St. Paul	4	5
White Bear Lake	2	3
Willmar	3	4

1980

Urban Area	# of Neonatal Deaths Original	Corrected
Alexandria	2	3
Apple Valley	-	1
Brooklyn Center	1	2
Brooklyn Park	2	4
Chanhassen	-	1
Chaska	-	1
Cloquet	1	2
Coon Rapids	4	5
Crystal	4	5
Duluth	11	12
Forest Lake	-	1
Lake Elmo	1	3
Lino Lakes	-	1
Maplewood	-	2
Marshall	1	2
Minneapolis	45	49
Morris	1	2
Mound	1	2
Mounds View	4	5
North Mankato	2	3
Oakdale	1	2
Owatonna	2	5
Park Rapids	-	1
Rochester	7	10
St. Paul	30	39
South St. Paul	-	1
Stewartville	-	1
Thief River Falls	1	2
Wadena	-	1
Willmar	3	4
Worthington	1	2

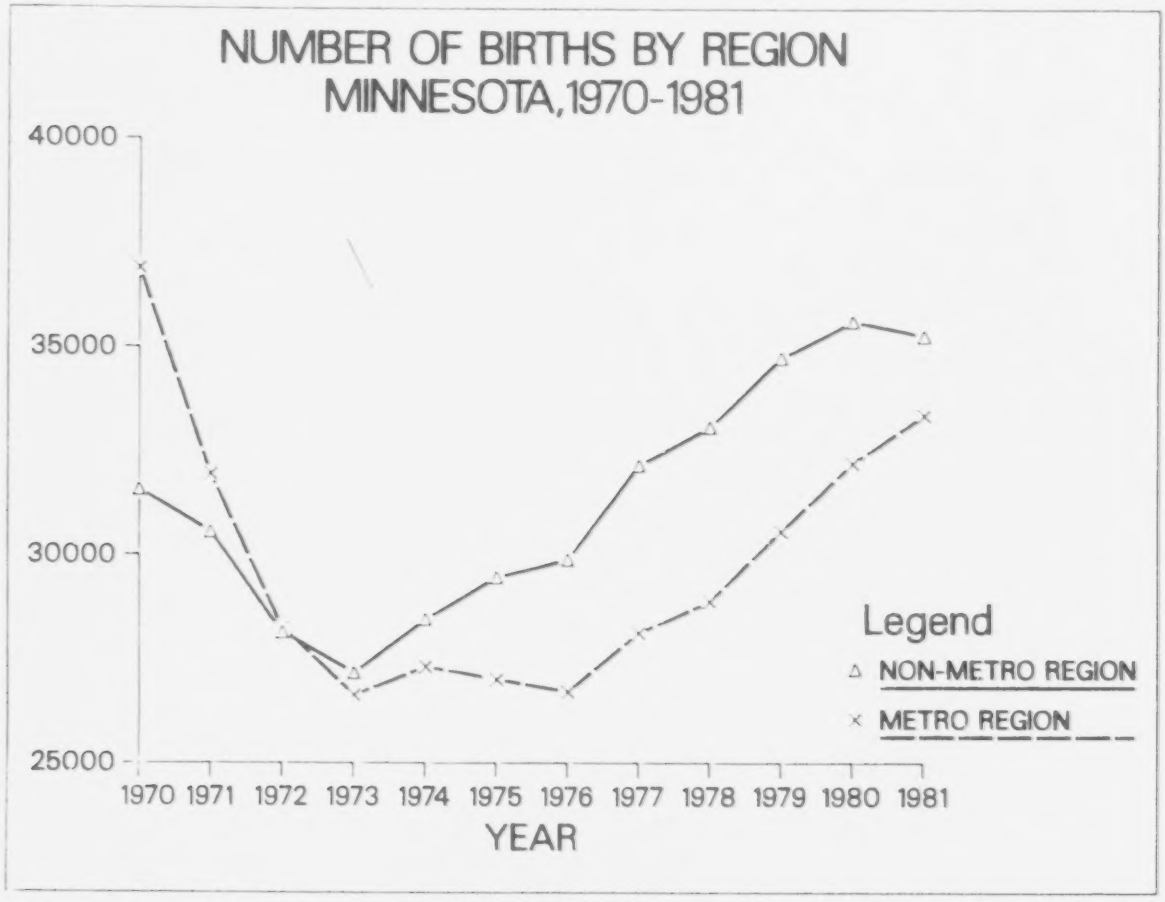
ERRATA

A publishing error in the 1980 Minnesota Health Statistics resulted in the omission of graphics pertaining to "Births by Geographic Area" (page 36) and "Out of Wedlock Births" (page 38). The following figures refer to those sections. A narrative describing 1981 data has been included. Please note that in the section "Births by Geographic Area," 1980, a typographical error indicated a one percent increase in the number of births between 1970 and 1980. This should have been described as a one percent decrease.

Births by Geographic Area

In 1981, there were 68,652 resident births in Minnesota, a one percent increase over 1980 births. This was consistent with the trend of yearly increases since the low of 53,783 births in 1973. Metro area births increased by 3.5 percent in 1981, while non-metro area births declined by one percent.

Figure 1

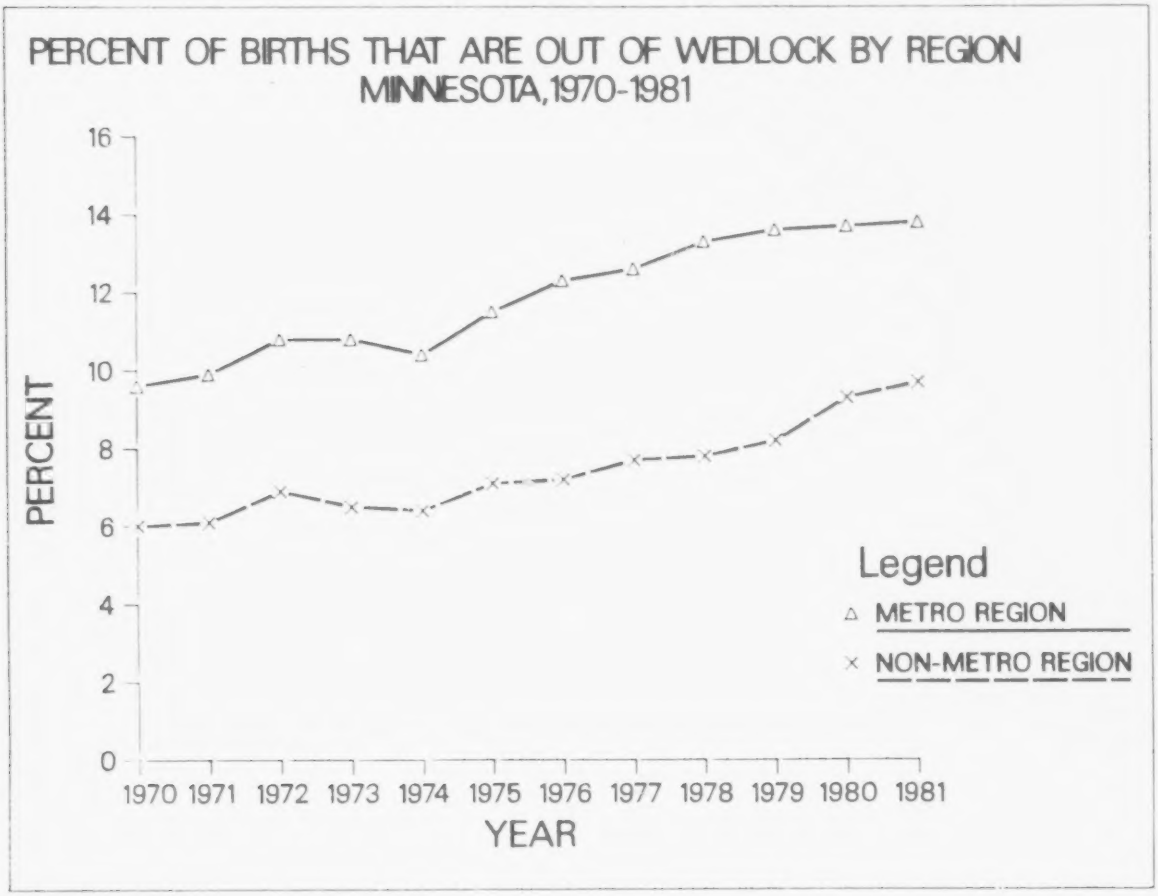


ERRATA

Out of Wedlock Births

Out of wedlock births accounted for 11.7 percent of all resident births in 1981. The metro and non-metro regions both showed increases in out of wedlock births between 1980 and 1981. In 1981, there were 4,599 out of wedlock births in the metro area or 13.8 percent of all metro births. This represents a 3.7 percent increase over 1980. The number of non-metro area out of wedlock births was 3,433 in 1981 (9.7 percent of all non-metro births), an increase of 3.9 percent from the 1980 figure.

Figure 2



OTHER RELATED PUBLICATIONS AVAILABLE

REPORTED INDUCED ABORTIONS, MINNESOTA

1980, Published September, 1981
1981, Published February, 1983
1982, Published February, 1984

TEENAGE PREGNANCY IN MINNESOTA

Published May, 1981

HEALTHY PEOPLE--THE MINNESOTA EXPERIENCE

Published October, 1982

SMOKING AND THE MINNESOTA POPULATION--A REPORT ON SMOKING AS A BEHAVIORAL RISK TO GOOD HEALTH

Published February, 1983

1982 MINNESOTA HEALTH PROFILES

Published April, 1983

ALCOHOL AND THE MINNESOTA POPULATION--A REPORT ON ALCOHOL AS A BEHAVIORAL RISK TO GOOD HEALTH

Published August, 1983

AN OVERVIEW OF BIRTH DEFECTS IN MINNESOTA, 1950-1980

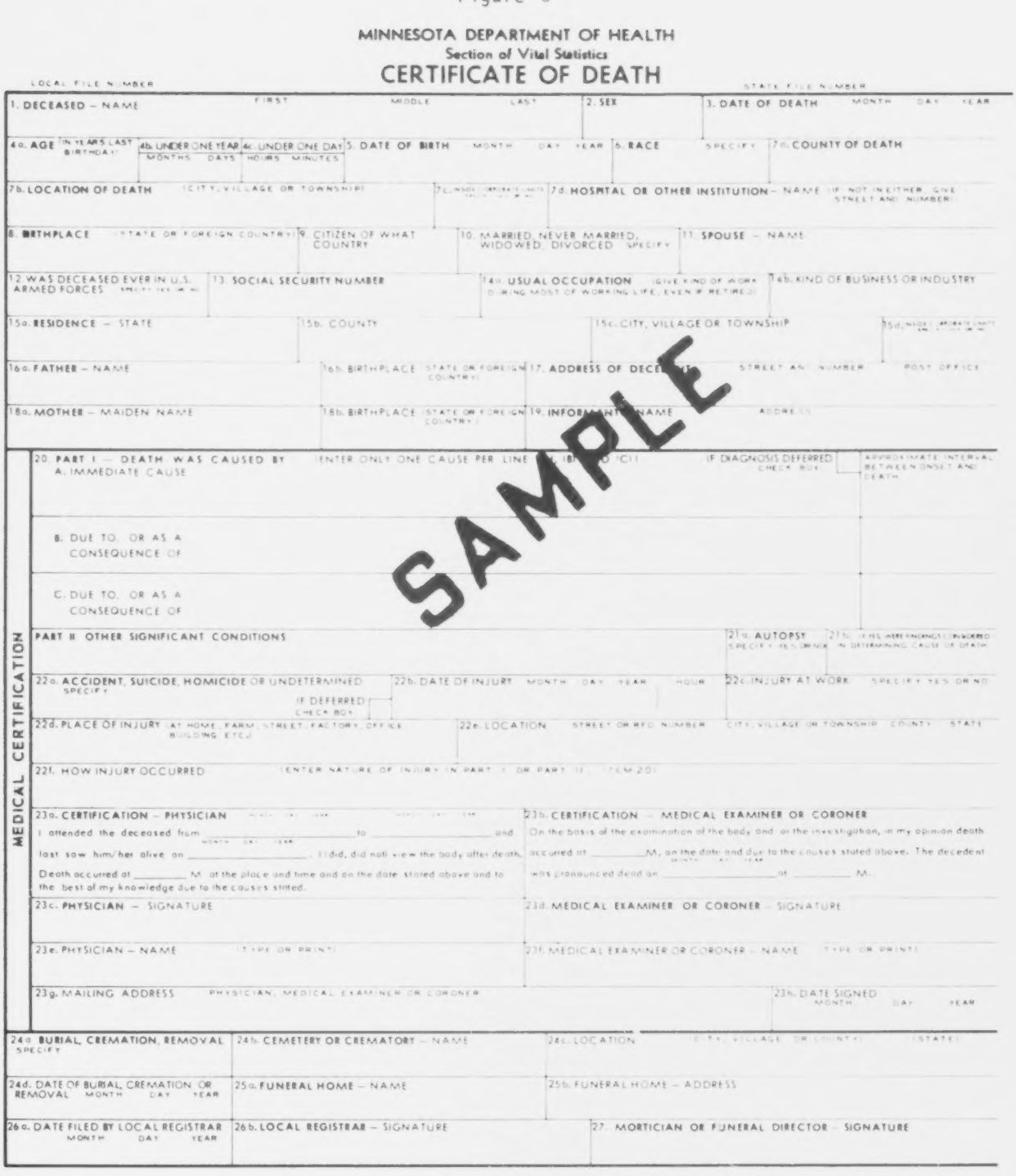
Published February, 1984

Additional related publications are out of print. Xerox copies of specific data, as well as other birth, fetal death, death, abortion, marriage, or divorce information, may be obtained on request by contacting:

Minnesota Department of Health
Center for Health Statistics
717 Delaware Street S.E.
P.O. Box 9441
Minneapolis, Minnesota 55440

Telephone Number: (612) 623-5353

Figure 3



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
CERTIFICATE OF DEATH

LOCAL FILE NUMBER

STATE FILE NUMBER

1. DECEASED – NAME (FIRST, MIDDLE, LAST)
2. SEX
3. DATE OF DEATH (MONTH, DAY, YEAR)
4a. AGE (IN YEARS LAST BIRTHDAY)
4b. UNDER ONE YEAR (MONTHS, DAYS)
4c. UNDER ONE DAY (HOURS, MINUTES)
5. DATE OF BIRTH (MONTH, DAY, YEAR)
6. RACE (SPECIFY)
7a. COUNTY OF DEATH
7b. LOCATION OF DEATH (CITY, VILLAGE OR TOWNSHIP)
7c. (INSIDE CORPORATE LIMITS?)
7d. HOSPITAL OR OTHER INSTITUTION – NAME (IF NOT IN EITHER, GIVE STREET AND NUMBER)
8. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
9. CITIZEN OF WHAT COUNTRY
10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED (SPECIFY)
11. SPOUSE – NAME
12. WAS DECEASED EVER IN U.S. ARMED FORCES (SPECIFY YES OR NO)
13. SOCIAL SECURITY NUMBER
14a. USUAL OCCUPATION (GIVE KIND OF WORK DURING MOST OF WORKING LIFE, EVEN IF RETIRED)
14b. KIND OF BUSINESS OR INDUSTRY
15a. RESIDENCE – STATE
15b. COUNTY
15c. CITY, VILLAGE OR TOWNSHIP
15d. (INSIDE CORPORATE LIMITS?)
16a. FATHER – NAME
16b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
17. ADDRESS OF DECEDENT (STREET AND NUMBER, POST OFFICE)
18a. MOTHER – MAIDEN NAME
18b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
19. INFORMANT – NAME, ADDRESS

MEDICAL CERTIFICATION

20. PART I. — DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (A), (B) AND (C).) — IF DIAGNOSIS DEFERRED, CHECK BOX — APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH
A. IMMEDIATE CAUSE
B. DUE TO, OR AS A CONSEQUENCE OF
C. DUE TO, OR AS A CONSEQUENCE OF

PART II. OTHER SIGNIFICANT CONDITIONS

21a. AUTOPSY (SPECIFY YES OR NO)
21b. (WAS AUTOPSY FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH?)
22a. ACCIDENT, SUICIDE, HOMICIDE OR UNDETERMINED (SPECIFY) — IF DEFERRED, CHECK BOX
22b. DATE OF INJURY (MONTH, DAY, YEAR, HOUR)
22c. INJURY AT WORK (SPECIFY YES OR NO)
22d. PLACE OF INJURY (AT HOME, FARM, STREET, FACTORY, OFFICE BUILDING, ETC.)
22e. LOCATION (STREET OR RFD. NUMBER, CITY, VILLAGE OR TOWNSHIP, COUNTY, STATE)
22f. HOW INJURY OCCURRED (ENTER NATURE OF INJURY IN PART I OR PART II, ITEM 20)

23a. CERTIFICATION – PHYSICIAN
I attended the deceased from _____ (MONTH, DAY, YEAR) to _____ (MONTH, DAY, YEAR) and last saw him/her alive on _____. I did, did not view the body after death. Death occurred at _____ M. at the place and time and on the date stated above and to the best of my knowledge due to the causes stated.

23b. CERTIFICATION – MEDICAL EXAMINER OR CORONER
On the basis of the examination of the body and/or the investigation, in my opinion death occurred at _____ M., on the date and due to the causes stated above. The decedent was pronounced dead on _____ (MONTH, DAY, YEAR) at _____ M.

23c. PHYSICIAN – SIGNATURE
23d. MEDICAL EXAMINER OR CORONER – SIGNATURE
23e. PHYSICIAN – NAME (TYPE OR PRINT)
23f. MEDICAL EXAMINER OR CORONER – NAME (TYPE OR PRINT)
23g. MAILING ADDRESS (PHYSICIAN, MEDICAL EXAMINER OR CORONER)
23h. DATE SIGNED (MONTH, DAY, YEAR)

24a. BURIAL, CREMATION, REMOVAL (SPECIFY)
24b. CEMETERY OR CREMATORY – NAME
24c. LOCATION (CITY, VILLAGE OR COUNTY, STATE)
24d. DATE OF BURIAL, CREMATION OR REMOVAL (MONTH, DAY, YEAR)
25a. FUNERAL HOME – NAME
25b. FUNERAL HOME – ADDRESS
26a. DATE FILED BY LOCAL REGISTRAR (MONTH, DAY, YEAR)
26b. LOCAL REGISTRAR – SIGNATURE
27. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

SAMPLE

SIGNATURE OF SUB REGISTRAR

19

BURIAL OR REMOVAL PERMIT ISSUED

BEST AVAILABLE COPY

Figure 4

Minnesota Department of Health

Section of Vital Statistics

CERTIFICATE OF LIVE BIRTH

1. CHILD NAME — FIRST — MIDDLE — LAST		2a. DATE OF BIRTH — MONTH DAY YEAR	2b. HOUR
3. SEX	4a. THIS BIRTH — SINGLE, TWIN, TRIPLET, ETC. — SPECIFY	4b. IF NOT SINGLE BIRTH — BORN FIRST, SECOND, ETC. — SPECIFY	5a. COUNTY OF BIRTH
5b. LOCATION OF BIRTH — CITY OR TOWNSHIP		5c. HOSPITAL NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)	
6a. FATHER NAME — FIRST — MIDDLE — LAST		6b. AGE (AT TIME OF THIS BIRTH)	6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a. MOTHER NAME — FIRST — MIDDLE — MAIDEN		7b. AGE (AT TIME OF THIS BIRTH)	7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a. RESIDENCE OF MOTHER STATE	8b. COUNTY	8c. CITY OR TOWNSHIP	8d. INSIDE CORPORATE LIMITS (SPECIFY YES OR NO)
9. MAILING ADDRESS OF MOTHER — STREET AND NUMBER — CITY AND ZIP CODE		10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)	
11a. CERTIFICATION (ATTENDING PHYSICIAN, ATTENDING MIDWIFE, OTHER PERSON IN ATTENDANCE, OR PERSON IN CHARGE OF INSTITUTION) — SIGNATURE		11b. DATE SIGNED	11c. ATTENDANT (M.D., D.O., C.N.M., OTHER, SPECIFY)
11d. CERTIFIER NAME (TYPE OR PRINT)		11e. MAILING ADDRESS — STREET AND NUMBER — POST OFFICE	
12a. REGISTRAR SIGNATURE		12b. DATE FILED	

THIS SPACE RESERVED FOR USE OF REGISTRAR

SAMPLE

SUPPLEMENTARY INFORMATION

(THIS SECTION NOT TO BE REPRODUCED ON CERTIFIED COPIES UNLESS SPECIFICALLY REQUESTED)

13a. DATE OF LAST LIVE BIRTH — MONTH DAY YEAR	13b. DATE OF LAST OTHER TERMINATION — MONTH DAY YEAR	14a. RACE OF FATHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY	14b. RACE OF MOTHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY	15. BORN IN WEDLOCK SPECIFY YES OR NO	16. BIRTH WEIGHT

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

PREGNANCY HISTORY				18a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED)			18b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED)			APGAR SCORE	
LIVE BIRTHS (DO NOT INCLUDE THIS CHILD)		OTHER TERMINATIONS (SPONTANEOUS AND INDUCED)		ELEMENTARY (0 1 2 3 or 8)	HIGH SCHOOL (1 2 3 or 4)	COLLEGE (1 2 3 4 5 +)	ELEMENTARY (0 1 2 3 or 8)	HIGH SCHOOL (1 2 3 or 4)	COLLEGE (1 2 3 4 5 +)	1 min.	5 min.
17a. NOW LIVING	17b. NOW DEAD	17c. BEFORE 20 WEEKS	17d. AFTER 20 WEEKS							19a	19b
Number___ None_	Number___ None	Number___ None_	Number___ None								

20. DATE LAST NORMAL MENSES BEGAN — MONTH DAY YEAR	21. PHYSICIAN'S ESTIMATE OF GESTATION	22a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2ND, ETC.) IF NONE SO STATE	22b. NUMBER OF PRENATAL VISITS (0 1 2 etc.)

23. COMPLICATIONS OF PREGNANCY (DESCRIBE OR WRITE "NONE")

24. OTHER ILLNESSES OR CONDITIONS AFFECTING THE MOTHER (DESCRIBE OR WRITE "NONE")

25. COMPLICATIONS OF LABOR AND/OR DELIVERY (DESCRIBE OR WRITE "NONE")

26. WAS LABOR INDUCED (SPECIFY YES OR NO. IF YES, SPECIFY METHOD)

27. OPERATIVE PROCEDURES

28. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE "NONE")

29. OTHER SIGNIFICANT CONDITIONS OF CHILD (DESCRIBE OR WRITE "NONE")

30. WAS CHILD ADMITTED TO I.C.U. (SPECIFY YES OR NO)

Important: Please Read Reverse Side

BEST AVAILABLE COPY

Figure 5

Margin Reserved for Coding

Mail Directly to
Section of Vital Statistics
Minnesota Dept. of Health
St. Paul, Minn. 55101

MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
MEDICAL SUPPLEMENT TO THE
CERTIFICATE OF FETAL DEATH

This information is to be used solely for medical or scientific purposes. Confidentiality is provided under M.S. 144.053.

1. FETUS – NAME (FIRST, MIDDLE, LAST) | 2a. DATE OF DELIVERY (MONTH, DAY, YEAR) | 2b. HOUR

3. SEX | 4a. THIS DELIVERY (SINGLE, TWIN, TRIPLET, ETC.) | 4b. IF NOT SINGLE DELIVERY (BORN FIRST, SECOND, ETC.) | 5a. COUNTY OF DELIVERY

5b. LOCATION OF DELIVERY (CITY, VILLAGE OR TOWNSHIP) (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER) | 5c. HOSPITAL – NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)

6. FATHER – NAME (FIRST, MIDDLE, LAST) | 6b. AGE (AT TIME OF THIS DELIVERY) | 6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)

7. MOTHER – MAIDEN NAME (FIRST, MIDDLE, LAST) | 7b. AGE (AT TIME OF THIS DELIVERY) | 7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)

8. RESIDENCE OF MOTHER – STATE | 8b. COUNTY | 8c. CITY, VILLAGE OR TOWNSHIP | 8d. INSIDE CORPORATE LIMITS (SPECIFY YES OR NO)

9. ADDRESS OF MOTHER (STREET AND NUMBER, RURAL ROUTE) | 10. (CERTIFICATE NUMBER) | (SIGNATURE OF PARENT)

11. PART I. FETAL DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (A), (B) AND (C).) | (DIAGNOSIS DEFERRED, SPECIFY) | FETAL OR MATERNAL CAUSE (SPECIFY)

A. IMMEDIATE CAUSE

B. DUE TO, OR AS A CONSEQUENCE OF

C. DUE TO, OR AS A CONSEQUENCE OF

PART II. OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER

12. FETUS DIED (BEFORE LABOR, DURING LABOR, BEFORE ADMISSION, UNKNOWN) | 13a. AUTOPSY (SPECIFY YES OR NO) | 13b. (IF YES) WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH

14b. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE STATED ABOVE AND THE FETUS WAS BORN DEAD. | 14c. DATE SIGNED | 14d. ATTENDANT (MD, DO, OSTEO., MIDWIFE, OTHER) (SPECIFY)

SIGNATURE

14f. CERTIFIER – NAME (TYPE OR PRINT) | 14g. MAILING ADDRESS (STREET OR R.F.D. NO., POST OFFICE, STATE)

15a. BURIAL, CREMATION, REMOVAL (SPECIFY) | 15b. CEMETERY OR CREMATORY – NAME | 15c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)

15d. DATE OF BURIAL, CREMATION OR REMOVAL (MONTH, DAY, YEAR) | 16a. FUNERAL HOME – NAME | 16b. FUNERAL HOME – ADDRESS

17a. DATE FILED BY LOCAL REGISTRAR (MONTH, DAY, YEAR) | 17b. LOCAL REGISTRAR – SIGNATURE | 18. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

BURIAL OR REMOVAL PERMIT ISSUED _____ 19 _____ SIGNATURE OF SUB-REGISTRAR

SUPPLEMENTARY INFORMATION

(This section not to be reproduced on certified copies unless specifically requested.)

19a. RACE OF FATHER (SPECIFY) | 19b. RACE OF MOTHER (SPECIFY) | 20. LEGITIMATE (SPECIFY YES OR NO) | 21. BIRTH WEIGHT

22a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED) | 22b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED) | 23. PREVIOUS DELIVERIES – HOW MANY OTHER CHILDREN

ELEMENTARY (0,1,2,...,8,9,10,11,12)	HIGH SCHOOL (1,2,3 OR 4)	COLLEGE (1,2,3,4,5+)	ELEMENTARY (0,1,2,...,8,9,10,11,12)	HIGH SCHOOL (1,2,3 OR 4)	COLLEGE (1,2,3,4,5+)	ARE NOW LIVING	WERE BORN ALIVE NOW DEAD	WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION)

SUPPLEMENTAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY

24. DATE LAST NORMAL MENSES BEGAN (MONTH, DAY, YEAR)	25a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2ND, ETC.) (IF NONE SO STATE)	25b. NUMBER OF PRENATAL VISITS (0, 1, 2, ETC.)	26a. DATE OF LAST LIVE BIRTH (MONTH, DAY, YEAR)	26b. DATE OF LAST FETAL DEATH (MONTH, DAY, YEAR)

27. COMPLICATIONS RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE")	28. COMPLICATIONS NOT RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE")
29a. COMPLICATIONS OF LABOR (DESCRIBE OR WRITE "NONE")	29b. WAS LABOR INDUCED (IF YES, METHOD)
29c. OPERATIVE PROCEDURES (DESCRIBE OR WRITE "NONE")	30. SEROLOGIC TEST FOR SYPHILIS (SPECIFY YES OR NO) / 31. WAS MOTHER'S BLOOD TESTED FOR RH FACTOR (SPECIFY YES OR NO)
32. BIRTH INJURIES TO FETUS (DESCRIBE OR WRITE "NONE")	33. CONGENITAL MALFORMATIONS OR ANOMALIES (DESCRIBE OR WRITE "NONE")

SAMPLE

BEST AVAILABLE COPY

Figure 6

Complete and return to:

Center for Health Statistics
Minnesota Department of Health
717 Delaware St., S.E.
Minneapolis, Minnesota 55440
(612) 296-5584

PLEASE PRINT

REPORT OF INDUCED ABORTION

TYPE OF ADMISSION

1 = Inpatient 2 = Outpatient 3 = Clinic 4 = Other

FACILITY ID CODE 1

PATIENT RESIDENCE (Write in)

City

County

State

MDH use only

12

16

18

20

AGE IN YEARS (Birth Date Optional) Month Day Year Years

RACE ETHNICITY 1 = White 2 = Black 3 = American Indian 4 = Hispanic 5 = Japanese, Chinese, Asian 6 = Other 7 = Unknown 22

MARITAL STATUS 1 = Never Married 2 = Married Now 3 = Widowed 4 = Divorced 5 = Separated 6 = Unknown 23

CONTRACEPTIVES USED?

1 = Never used any contraceptive method
2 = Have used but discontinued method
3 = Was using at conception (Method failure — See 46 below*)
4 = Unknown
5 = Interrupted use of usual method (Human error — See 46 below*)

Total number of prior pregnancies to this woman (a+b+c below) 24

a. Total number of live births
b. Fetal deaths, spontaneous abortions
c. Number of prior induced abortions

28

DATE OF ABORTION 29 Month Day Year

DATE OF LAST NORMAL MENSES (LMP) 30 Month Day Year

GESTATION WEEKS (Physicians estimate of completed weeks post LMP) 41 Weeks

ABORTION METHOD

1 = Suction curettage
2 = Sharp curettage
3 = Saline fluid exch
4 = Prostaglandin
5 = Hysterectomy, otomy
6 = Combination (Circle each)
7 = Menstrual extr (– preg)
8 = Menstrual extr (+ preg)
9 = Laminaria & curettage (Dilation & evacuation) 43

COMPLICATIONS OR FAILURES (Was patient hospitalized? Yes No (Circle one)) Briefly Note any other information

0 = None
1 = Hemorrhage (500 ml)
2 = Pelvic infection
3 = Fever (>38° C)
4 = Cervical injury
5 = Uterine perforation
6 = Retained tissue
7 = Continuing pregnancy
8 = Other (Specify) 44

Optional

RELIGIOUS PREFERENCE 1 = Prot 2 = Cath 3 = Jew 4 = Other 5 = None 6 = Unk 45

*CURRENT CONTRACEPTIVE (As indicated by 28 above)

0 = None
1 = Rhythm
2 = Douche or Withdrwl
3 = Foam
4 = Condom
5 = Foam + Condom
6 = Diaphragm
7 = IUD
8 = Pills
9 = Sterilization (M or F)
A = Suppositories
B = Injectables
C = Natural Family Planning
D = Other
E = Combination
F = Unknown 46

47

HE-01160-02 (4-81)

SAMPLE

BEST AVAILABLE COPY

Figure 7

FIRST REPORT OF INJURY

(See Instructions on Reverse Side. Type or Print)

State of Minnesota
Department of Labor and Industry
Workers' Compensation Division
444 Lafayette Road
St. Paul, Minnesota 55101
612-296-6107

Official Use Only

1. Insurer's Claim Number
2. Employee's Social Security Number
3. Date of Claimed Injury
4. Employee's Name (Last, First, Middle) | Phone (Include Area Code) | Sex: Male / Female
5. Address (Street, Route, P.O. Box) | Date of Birth | Marital Status: Married / Not Married
6. City, County, State, Zip | Job Title | Type of Work Program: Apprenticeship / Other (Specify)
7. Employment Status: Full time / Part time / Seasonal / Volunteer / Other — Specify (regularly scheduled, etc.)
8. Straight Time ▶ | Rate Per Hour | Hours Per Day | Days Per Week | Overtime If Paid ▶ | Rate Per Hour | Average Hours Per Week | Average Gross Weekly Wage ▶
9. If part time or irregularly scheduled worker, indicate total amount earned, total days worked, and total weeks worked in last 26 weeks ▶ | Amount Earned | Total Days Worked | Total Weeks Worked
10. If furnished in addition to wages, state the weekly value of ▶ | Meals $ | Lodging $ | Other $ | Did employee have other regular employment? Yes / No — If yes, where? ▶ | Hours/Week | Weekly Wages
11. Did claimed injury cause loss of time from work? Yes / No — If yes ▶ | If 1st day of lost time | Did the employee lose time from work on the day of the injury? Yes / No — If yes ▶ | Hours Lost
12. Has employee returned to work? Yes / No — If yes ▶ | Date | Were full or partial wages paid for first day of lost time? Yes / No — If yes ▶ | $ Paid | Hrs. Worked
13. Employer (If subsidiary, also specify parent's name and address) | Phone (Include Area Code) | Type of Ownership: Individual / Partnership / Corporation / Government
14. Department | Phone (Include Area Code) | SIC
15. Employer's Street Address | Name and Title of Supervisor who first received notice of claimed injury
16. City, State, Zip | Date when notice received | Time of day that injury occurred: A.M. / P.M.
17. Location where injury occurred (Identify job site) (Identify city, zip) | Did injury occur on employer's premises? Yes / No (If no, where?)
17a. Total number of employees at the work location where the claimed injury occurred
18. Name of treating physician (Chiropractor, Specify M.D., D.O., etc.) | Phone (Include Area Code) | If treated at a hospital, list name of hospital
19. Address | Hospital Address
20. City, State, Zip | City, State, Zip
21. Describe claimed injury or occupational illness in detail
22. Part of body affected | Name of object, machine, tool, etc. or substance (chemical, etc.) involved
23. Nature of injury (Cut, Sprain, Burn, etc.) | Type of accident (Fall, Struck by, Strain, Reaction, etc.)
24. What action has been taken to prevent recurrence? | If employee died as a result of this injury, list name, relationship, and date of death
25. Names of co-employees who may have witnessed claimed injury | Name of next of kin | Relationship | Date of Death
26. Name of workers' compensation insurer (If not on form) | Address | City, State, Zip
27. Dated | Signed (Include official title and phone) | Sign here ▶

LI 2(A)10.02 White — Agency Yellow — Insurer Green — Insurer Blue — Employer

SAMPLE

BEST AVAILABLE COPY

Figure 8

MINNESOTA DEPARTMENT OF HEALTH
HEALTH DISTRICTS AND OFFICES

BEST AVAILABLE COPY